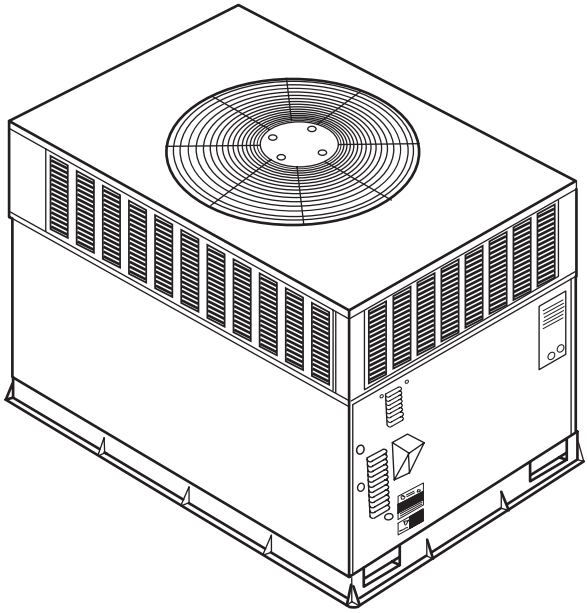
bryant
Heating & Cooling Systems

# SINGLE-PACKAGED GAS HEATING/ELECTRIC COOLING UNITS

**Model 574B**
**Sizes 024-060**
2 to 5 Nominal Tons
Low NOx Models Available

Puron®
the environmentally sound refrigerant

energy



## UNIT 574B

Single-Packaged Rooftop Products with Energy-Saving Features and Puron® refrigerant.

- Direct Spark Ignition
- Low Sound Levels
- Up to 81% AFUE
- 13 SEER
- Variable Speed Blower Standard
- Factory Installed TXV

### FEATURES/BENEFITS

One-piece heating and cooling units with low sound levels, easy installation, low maintenance, and dependable performance.

**Puron® Environmentally Sound Refrigerant** is Bryant's unique refrigerant designed to help protect the environment. Puron is an HFC refrigerant which does not contain chlorine that can harm the ozone layer. The most important advantage of Puron refrigerant is that it has not been banned in future air conditioning systems as the traditional refrigerant R-22 has been. Puron refrigerant is in service in thousands of systems proving highly reliable, environmentally sound performance.

**Perfect Heat, Perfect Humidity™ featuring Variable Speed Blower motors** provides better comfort and energy efficiency. You can expect up to 30 times better dehumidification; economical constant fan for less than $50 a year, which provides improved indoor air quality and more even temperatures from room to room; and reduced indoor noise due to lower air velocity. In addition, you'll realize improved installation flexibility with 3 different airflow choices for best overall comfort.

**EASY INSTALLATION**—Factory-assembled package is a compact, fully self-contained, combination gas heating/electric cooling unit that is pre-wired, pre-piped, and pre-charged for minimum installation expense.

These units are available in a variety of standard and optional heating/cooling size combinations with voltage options to meet residential and light commercial requirements. Units are lightweight and install easily on a rooftop or at ground level. The high tech composite unit base eliminates rust problems associated with ground level applications.

**CONVERTIBLE DUCT CONFIGURATION**—Unit is designed for easy use in either downflow or horizontal applications. Each unit is easily converted from horizontal to downflow.

**EFFICIENT OPERATION**

**High-efficiency design** offers SEER (Seasonal Energy Efficiency Ratios) of 13.0 and AFUE (Annual Fuel Utilization Efficiency) ratings as high as 81%.

**Energy-saving, direct spark ignition** saves gas by operating only when the room thermostat calls for heating. Standard units are furnished with natural gas controls. A low-cost field-installed kit for propane conversion is available for all units.

**574B units with an "N" in the thirteenth position of model # are dedicated Low NOx units** designed for California installations. These models meet the California maximum oxides of nitrogen (NOx) emissions requirement of 40 nanograms/joule or less as shipped from the factory and MUST be installed in California Air Quality Management Districts where a Low NOx rule exists.

**DURABLE, DEPENDABLE COMPONENTS**

**Compressors** are designed for high efficiency. Each compressor is hermetically sealed against contamination to help promote longer life and dependable operation. Each compressor also has vibration isolation to provide quieter operation. All compressors have internal high pressure and overcurrent protection.

**Monoport inshot burners** produce precise air-to-gas mixture, which provides for clean and efficient combustion. The large monoport on the inshot (or injection type) burners seldom, if ever, requires cleaning. All gas furnace components are accessible in one compartment.

**Turbo-tubular™ heat exchangers** are constructed of aluminized steel for corrosion resistance and optimum heat transfer for improved efficiency. The tubular design permits hot gases to make multiple passes across the path of the supply air.

In addition, dimples located on the heat exchanger walls force the hot gases to stay in close contact with the walls, improving heat transfer.

**Direct-drive variable speed (ECM) blower motor** is standard on all 574B models.

**Direct-drive, PSC condenser-fan motors** are designed to help reduce energy consumption and provide for cooling operation down to 55°F outdoor temperature. Motormaster® II low ambient kit is available as a field-installed accessory.

**Corporate thermostats** include the Time Guard® II anti-short cycle protection circuitry. If a non-corporate thermostat without anti-short cycle protection is used the Time Guard II field installed anti-short cycle kit is recommended.

**Refrigerant system** is designed to provide dependability. Liquid filter dryers are used to promote clean, unrestricted operation. Each unit leaves the factory with a full refrigerant charge. Refrigerant service connections make checking operating pressures easier.

**HIGH AND LOW PRESSURE SWITCHES** provide added reliability for the compressor.

**Evaporator and condenser coils** are computer-designed for optimum heat transfer and cooling efficiency. The evaporator coil is fabricated from copper tube and aluminum fins and is located inside the unit for protection against damage. The condenser coil is internally mounted on the top tier of the unit. Copper fin coils and pre-coated fin coils are available from the factory by special order. These coils are recommended in applications where aluminum fins are likely to be damaged due to corrosion. They are ideal for seacoast applications.

**Low sound ratings** ensure a quiet indoor and outdoor environment with sound ratings as low as 72 dB. (See page 3.)

**Easy to service cabinets** provide easy single-panel accessibility to serviceable components during maintenance and installation. The unit base with integrated drain pan provides easy ground level installation with or without a mounting pad. Convenient rigging holds are provided to manipulate the unit on the jobsite. A nesting feature ensures a positive unit base to roof curb seal when the unit is roof mounted. A convenient 3/4-in. wide perimeter flange makes frame mounting on a rooftop easy.

**Standard metal duct covers** with insulation come with the unit and cover the horizontal duct openings. These can be left in place if the units are converted to downflow.

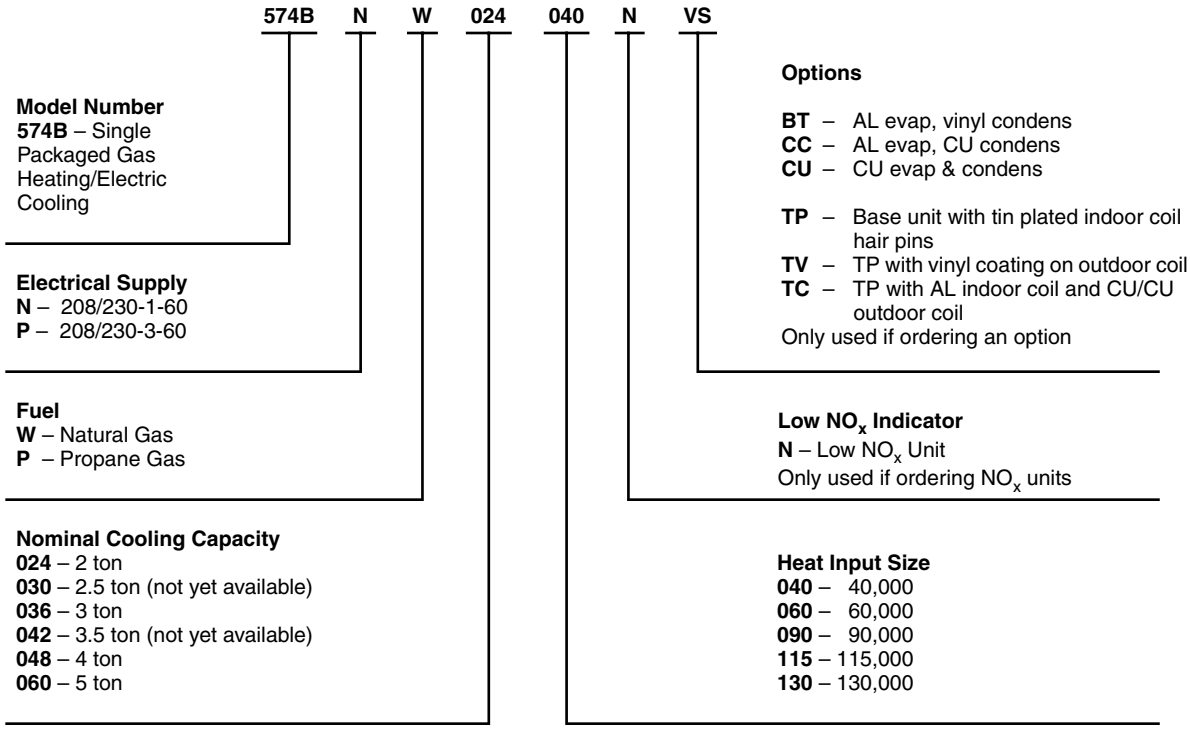
**Downflow operation** is easily provided in the field to allow vertical ductwork connections. The basepan utilizes knockout style seals on the bottom openings to ensure a positive seal in the horizontal airflow mode.

**Integrated Gas Control (IGC) board** provides safe and efficient control of heating and simplifies trouble-shooting through its built-in diagnostic function.

**Cabinets** are constructed of heavy-duty, phosphated, zinc-coated prepainted steel capable of withstanding 500 hours in salt spray. Interior surfaces of the evaporator/heat exchanger compartment are insulated with cleanable semi-rigid insulation board, which keeps the conditioned air from being affected by the outdoor ambient temperature and provides improved indoor air quality. (Conforms to American Society of Heating, Refrigeration and Air Conditioning Engineers No. 62P.) The sloped drain pan minimizes standing water in the drain, which is provided with an external drain fitting.

**Louvered Grille** provides hail and vandalism protection.

## MODEL NUMBER NOMENCLATURE


574B N W 024 040 N VS
Model Number
574B – Single Packaged Gas Heating/Electric Cooling
Electrical Supply
N – 208/230-1-60
P – 208/230-3-60
Fuel
W – Natural Gas
P – Propane Gas
Nominal Cooling Capacity
024 – 2 ton
030 – 2.5 ton (not yet available)
036 – 3 ton
042 – 3.5 ton (not yet available)
048 – 4 ton
060 – 5 ton
Options
BT – AL evap, vinyl condens
CC – AL evap, CU condens
CU – CU evap & condens
TP – Base unit with tin plated indoor coil hair pins
TV – TP with vinyl coating on outdoor coil
TC – TP with AL indoor coil and CU/CU outdoor coil
Only used if ordering an option
Low NOx Indicator
N – Low NOx Unit
Only used if ordering NOx units
Heat Input Size
040 – 40,000
060 – 60,000
090 – 90,000
115 – 115,000
130 – 130,000

LEGEND
**CU** — Copper
**AL** — Aluminum

# ARI* CAPACITIES
# COOLING CAPACITIES AND EFFICIENCIES

| UNIT 574B | NOMINAL TONS | STANDARD CFM | NET COOLING CAPACITIES (Btuh) | EER @A‡ | SEER† | SOUND RATINGS** (dB) |
|---|---|---|---|---|---|---|
| **024040** | 2 | 800 | 24,000 | 11.0 | 13.0 | 72 |
| **030040**<br>**036060** | 2-1/2 | | | | | |
| **036060**<br>**036090** | 3 | 1150 | 36,000 | 11.0 | 13.0 | 72 |
| **042060**<br>**042090** | 3-1/2 | | | 11.0 | | |
| **048090**<br>**048115**<br>**048130** | 4 | 1450 | 45,000 | 11.0 | 13.0 | 78 |
| **060090**<br>**060115**<br>**060130** | 5 | 1750 | 57,000 | 11.0 | 13.0 | 78 |

**LEGEND**

**dB** — Decibels
**db** — Dry Bulb
**SEER** — Seasonal Energy Efficiency Ratio
**wb** — Wet Bulb
* Air Conditioning & Refrigeration Institute.
† Rated in accordance with U.S. Government DOE (Department of Energy) test procedures and/or ARI Standard 210/240-89.
‡ "A" conditions — 80°F db/67°F wb Indoor and 95°F db outdoor
** Tested in accordance with ARI Standard 270-95 (not listed in ARI).

**NOTES:**

1. Ratings are net values, reflecting the effects of circulating fan heat. Ratings are based on:
   **Cooling Standard:** 80°F db, 67°F wb indoor entering-air temperature and 95°F db outdoor entering-air temperature.
2. Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

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## ARI* CAPACITIES (cont)
## HEATING CAPACITIES AND EFFICIENCIES

| UNIT 574B | HEATING INPUT (Btuh) | OUTPUT CAPACITY (Btuh) | TEMPERATURE RISE RANGE (°F) | AFUE |
|---|---|---|---|---|
| **024040**<br>**030040** | 40,000 | 31,000 | 20-50 | 80.1 |
| **030060**<br>**036060**<br>**042060** | 60,000 | 46,000<br>46,000<br>47,000 | 35-65<br>25-55<br>20-50 | 78.4<br>78.7<br>78.7 |
| **036090**<br>**042090**<br>**048090**<br>**060090** | 90,000<br>90,000<br>90,000<br>90,000 | 70,000<br>71,000<br>70,000<br>70,000 | 45-75<br>35-65<br>25-55<br>25-55 | 79.9<br>79.9<br>78.6<br>78.6 |
| **048115**<br>**060115** | 115,000 | 92,000 | 35-65 | 81.1 |
| **048130**<br>**060130** | 130,000 | 104,000<br>103,000 | 40-70 | 80.3 |

**LEGEND**

**AFUE** — Annual Fuel Utilization Efficiency

**NOTE:** Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

## OUTDOOR SOUND: OCTAVE BAND DATA — DECIBELS (Lw(A))

| MODEL NO. | 574B | | | | | |
|---|---|---|---|---|---|---|
| **Frequency (Hz)** | **024** | **030** | **036** | **042** | **048** | **060** |
| **125** | 57.5 | — | 60.7 | — | 62.4 | 64.1 |
| **250** | 61.1 | — | 63.3 | — | 69.9 | 68.6 |
| **500** | 68.0 | — | 66.8 | — | 71.3 | 71.2 |
| **1000** | 68.4 | — | 66.5 | — | 73.4 | 73.9 |
| **2000** | 64.5 | — | 64.2 | — | 70.0 | 69.8 |
| **4000** | 59.0 | — | 60.3 | — | 66.3 | 68.1 |
| **8000** | 51.7 | — | 53.0 | — | 60.1 | 61.8 |

## PHYSICAL DATA

| UNIT SIZE 574B | 024040 | 030040 | 030060 | 036060 | 036090 | 042060 | 042090 |
|---|---|---|---|---|---|---|---|
| NOMINAL CAPACITY (ton) | 2 | 2-1/2 | 2-1/2 | 3 | 3 | 3-1/2 | 3-1/2 |
| OPERATING WEIGHT (lb) | 350 | | | 388 | 388 | | |
| COMPRESSORS | Scroll | | | | | | |
| Quantity | 1 | | | | | | |
| REFRIGERANT (R-410A) | | | | | | | |
| Quantity (lb) | 7.3 | | | 9.5 | 9.5 | | |
| REFRIGERANT METERING DEVICE | | | | | | | |
| Indoor | TXV | | | | | | |
| CONDENSER COIL | | | | | | | |
| Rows—Fins/in.<br>Face Area (sq ft) | 2/21<br>11.95 | | | 2/21<br>13.7 | 2/21<br>13.7 | | |
| CONDENSER FAN | | | | | | | |
| Nominal Cfm<br>Diameter (in.)<br>Motor Hp (Rpm) | 2350<br>22<br>1/8 (825) | | | 2350<br>22<br>1/8 (825) | 2350<br>22<br>1/8 (825) | | |
| EVAPORATOR COIL | | | | | | | |
| Rows—fins/in.<br>Face Area (sq ft) | 3/15<br>3.7 | | | 4/15<br>3.7 | 4/15<br>3.7 | | |
| EVAPORATOR BLOWER | | | | | | | |
| Nominal Airflow (Cfm)<br>Size (in.)<br>Motor Hp (Rpm) | 800<br>10 x 10<br>1/2 | | | 1150<br>11 x 10<br>3/4 | 1150<br>11 x 10<br>3/4 | | |
| FURNACE SECTION* | | | | | | | |
| Burner Orifice No. (Qty…Drill Size)<br>Natural<br>Burner Orifice No. (Qty…Drill Size)<br>Propane | 2…44<br><br>2…50 | | | 2…38<br><br>2…46 | 3…38<br><br>3…46 | | |
| HIGH-PRESSURE SWITCH (psig) | | | | | | | |
| Cutout<br>Reset (Auto.) | 610 ± 15<br>420 ± 25 | | | | | | |
| LOSS-OF-CHARGE/LOW-PRESSURE SWITCH | | | | | | | |
| (Liquid Line) (psig)<br>Cutout<br>Reset (Auto.) | 20 ± 5<br>45 ± 10 | | | | | | |
| RETURN-AIR FILTERS (in.)† | | | | | | | |
| Throwaway | 20 x 24 x 1 | 20 x 24 x 1 | 20 x 24 x 1 | 20 x 24 x 1 | 20 x 24 x 1 | 24 x 30 x 1 | 24 x 30 x 1 |

† Required filter sizes shown are based on the larger of the ARI (Air Conditioning & Refrigeration Institute) rated cooling airflow or the heating airflow velocity of 300 ft/min for throwaway type or 450 ft/min for high-capacity type. Air filter pressure drop for non-standard filters must not exceed 0.08 in. wg.

* Based on altitude of 0 to 2000 ft.

## PHYSICAL DATA (cont)

| UNIT SIZE 574B | 048090 | 048115 | 048130 | 060090 | 060115 | 060130 |
|---|---|---|---|---|---|---|
| NOMINAL CAPACITY (ton) | 4 | 4 | 4 | 5 | 5 | 5 |
| OPERATING WEIGHT (lb) | 463 | 463 | 463 | 499 | 499 | 499 |
| **COMPRESSORS** | Scroll | | | | | |
| Quantity | 1 | | | | | |
| **REFRIGERANT (R-410A)** | | | | | | |
| Quantity (lb) | 11.25 | 11.25 | 11.25 | 13.5 | 13.5 | 13.5 |
| **REFRIGERANT METERING DEVICE** | | | | | | |
| Indoor | TXV | | | | | |
| **CONDENSER COIL** | | | | | | |
| Rows—Fins/in. | 2/21 | 2/21 | 2/21 | 2/21 | 2/21 | 2/21 |
| Face Area (sq ft) | 17.4 | 17.4 | 17.4 | 19.3 | 19.3 | 19.3 |
| **CONDENSER FAN** | | | | | | |
| Nominal Cfm | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 |
| Diameter (in.) | 22 | 22 | 22 | 22 | 22 | 22 |
| Motor Hp (Rpm) | 1/4 (1100) | 1/4 (1100) | 1/4 (1100) | 1/4 (1100) | 1/4 (1100) | 1/4 (1100) |
| **EVAPORATOR COIL** | | | | | | |
| Rows—fins/in. | 4/15 | 4/15 | 4/15 | 4/17 | 4/17 | 4/17 |
| Face Area (sq ft) | 4.7 | 4.7 | 4.7 | 5.7 | 5.7 | 5.7 |
| **EVAPORATOR BLOWER** | | | | | | |
| Nominal Airflow (Cfm) | 1400 | 1400 | 1400 | 1750 | 1750 | 1750 |
| Size (in.) | 11 x 10 | 11 x 10 | 11 x 10 | 11 x 10 | 11 x 10 | 11 x 10 |
| Motor Hp (Rpm) | 3/4 | 3/4 | 3/4 | 1.0 | 1.0 | 1.0 |
| **FURNACE SECTION**** | | | | | | |
| Burner Orifice No. (Qty…Drill Size) Natural Gas | 3…38 | 3…33 | 3…31 | 3…38 | 3…33 | 3…31 |
| Burner Orifice No. (Qty…Drill Size) Propane Gas | 3…46 | 3…42 | 3…41 | 3…46 | 3…42 | 3…41 |
| **HIGH-PRESSURE SWITCH (psig)** | | | | | | |
| Cutout | 610 ± 15 | | | | | |
| Reset (Auto.) | 420 ± 25 | | | | | |
| **LOSS-OF-CHARGE/LOW-PRESSURE SWITCH** | | | | | | |
| (Liquid Line) (psig) | | | | | | |
| Cutout | 20 ± 5 | | | | | |
| Reset (Auto.) | 45 ± 10 | | | | | |
| **RETURN-AIR FILTERS (in.)** | | | | | | |
| Throwaway† | 24 x 30 x 1 | 24 x 30 x 1 | 24 x 30 x 1 | 24 x 30 x 1 | 24 x 30 x 1 | 24 x 30 x 1 |

† Required filter sizes shown are based on the larger of the ARI (Air Conditioning & Refrigeration Institute) rated cooling airflow or the heating airflow velocity of 300 ft/min for throwaway type or 450 ft/min for high-capacity type. Air filter pressure drop for non-standard filters must not exceed 0.08 in. wg.

** Based on altitude of 0 to 2000 ft.

# OPTIONS AND ACCESSORIES

## Factory-installed options

**Coil options** include Tin-Plated* indoor hairpins, copper/copper and vinyl-coated construction for refrigerant coils. Units are shipped standard with copper tube/aluminum fin construction. See model number nomenclature for coil options.

*Tin-Plated indoor coils are built with special hairpins that are designed to resist both general pitting corrosion and excessive indoor corrosion (Formicary Corrosion).

## Field-installed accessories

| Economizer with Solid-State Controls and Barometric Relief Dampers |
|---|
| Manual Air Damper (25% open) |
| Filter Rack |
| Roof Curbs (8-in. and 14-in.) |
| Square-to-Round Duct Transition Kit |
| Thermostats |
| Crankcase Heater |
| Compressor Hard Start Kit (for use on single-phase units only) |
| LP Conversion Kit |
| High Altitude Kit |
| Low Ambient Kit (Motormaster® II Control) |
| Solid-State Time Guard® II Device |
| Lifting Kit |
| LP to Natural Conversion Kit |

**Economizer with solid-state controls and barometric relief dampers** includes filter racks and provide outdoor air during cooling and reduce compressor operation.

**Manual outside air damper** includes hood and filter rack with adjustable damper blade for up to 25% outdoor air.

**Flat roof curbs** in both 8 in. and 14 in. sizes are available for roof mounted applications.

**Square-to-round duct transition kit** enables 024-048 size units to be fitted to 14 in. round ductwork.

**Compressor hard start kit** assists compressor start-up by providing additional starting torque on single phase units and prolongs compressor motor life.

**Thermostats** provide control for the system heating and cooling functions. Thermostat models are available in both programmable and non-programmable versions.

**Crankcase heater** provides anti-floodback protection for low-load cooling applications.

**LP (liquid propane) conversion kit** allows for conversion from natural gas to liquid propane fuel.

**Low-ambient kit (Motormaster® II control)** allows the use of mechanical cooling down to outdoor temperatures as low as 0°F.

**Solid-state Time Guard® II device** provides short-cycling protection for the compressor. Not required with corporate electronic thermostats.

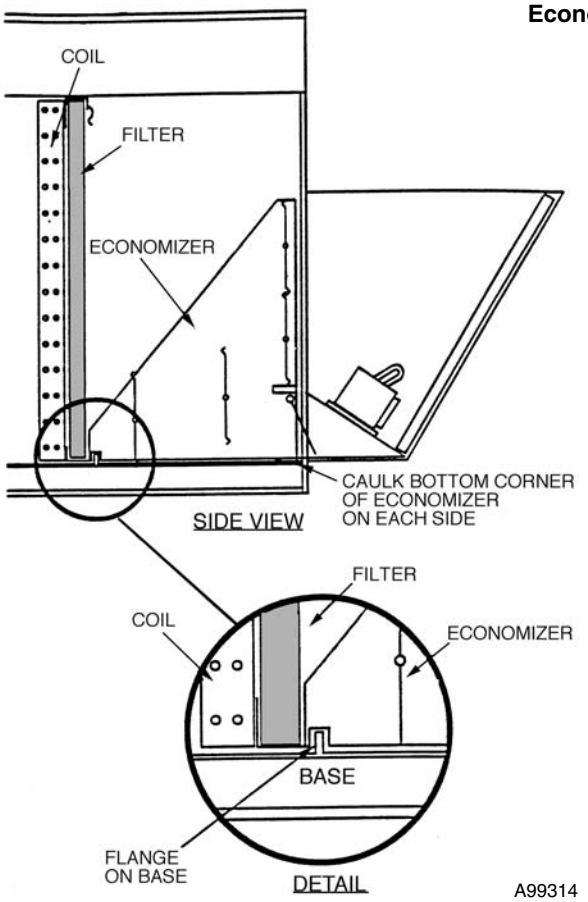
**Filter rack** features easy installation, serviceability, and high-filtering performance for vertical applications.

**High altitude kit** is for use at 2001 to 6000 ft above sea level. Kit consists of natural gas orifices that compensate for gas heat operation at high altitude.

**LP to natural gas conversion kit** allows conversion back to natural gas.

**Lifting kit** includes rigging brackets which are inserted into the unit base rigging holds to rig unit for rooftop applications.

## Economizer

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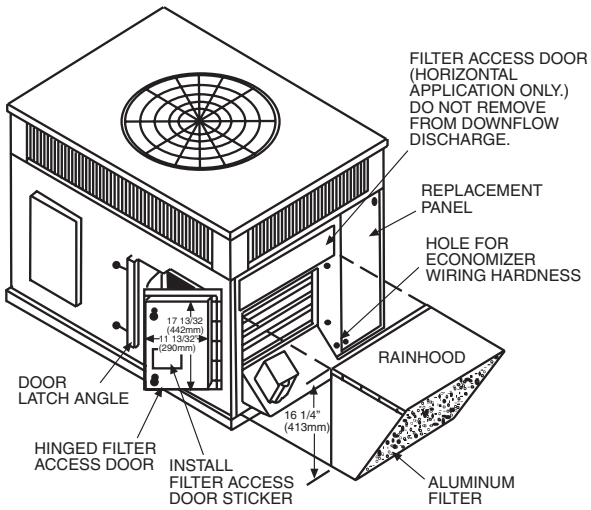


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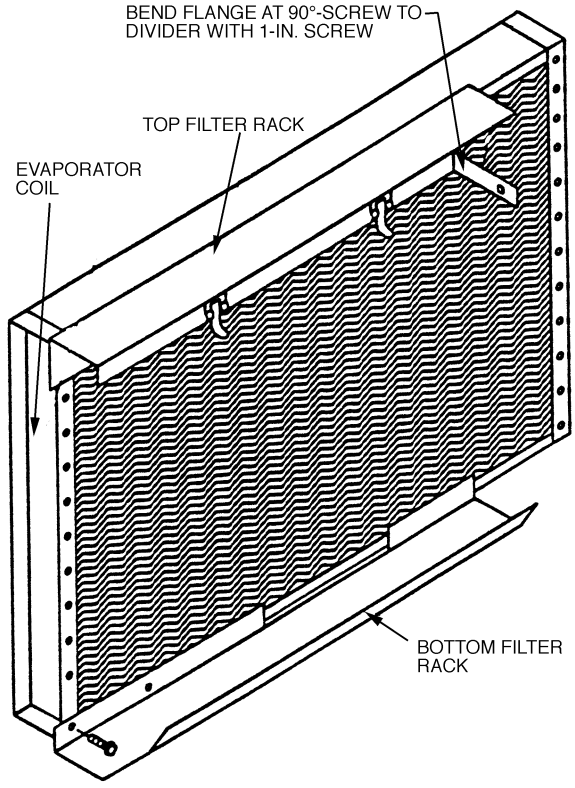
## Filter Rack

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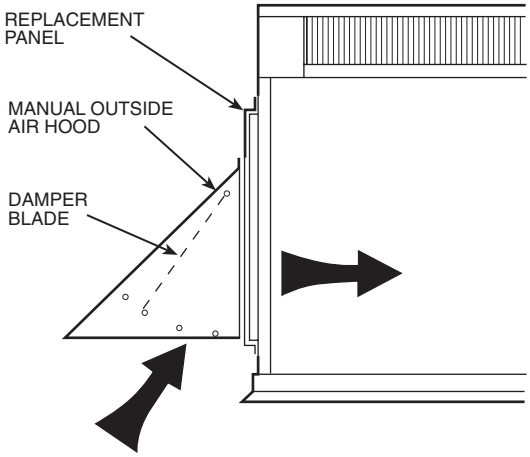
## Manual Outside Air Damper

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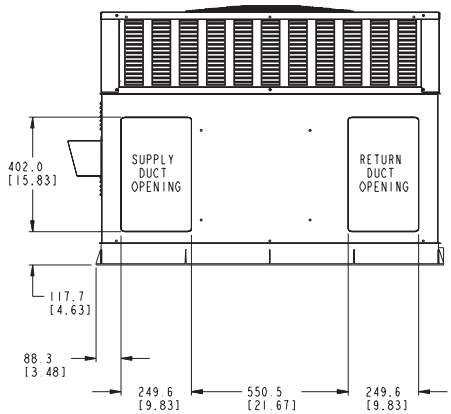
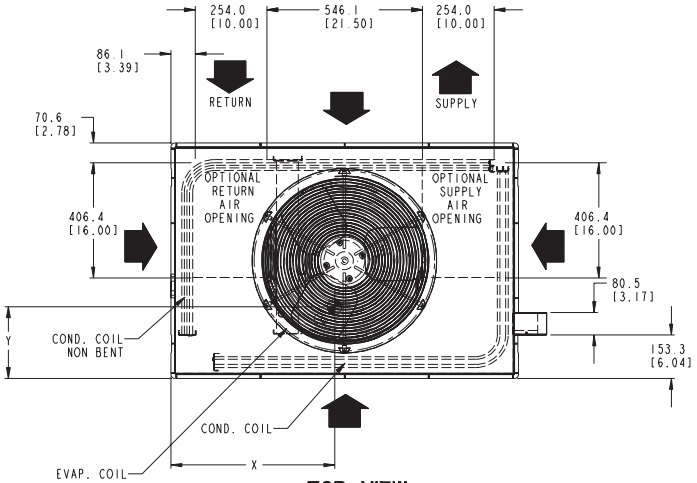
# BASE UNIT DIMENSIONS — 574B024-036



REAR VIEW



TOP VIEW

REQ'D CLEARANCES FOR OPERATION AND SERVICING. in. (mm)

Evaporator coil access side . . . . . .36 (914)
Power entry side (except for NEC requirements) . . . . . .36 (914)
Unit top . . . . . .48 (1219)
Side opposite ducts . . . . . .36 (914)
Duct panel . . . . . .12 (304.8)*

*Minimum distances: If unit is placed less than 12 in. (304.8 mm) from wall system, then the system performance may be compromised.

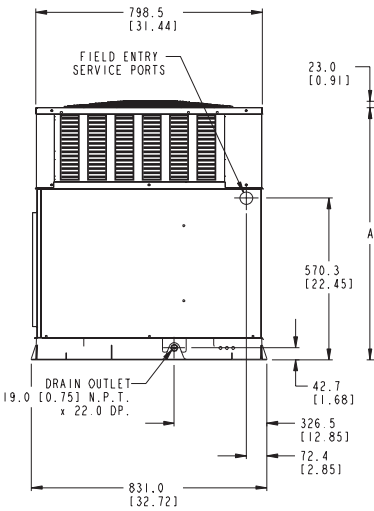
REQ'D CLEARANCES TO COMBUSTIBLE MAT'L. in. (mm)

Top of unit . . . . . .14 (355.6)
Duct side of unit . . . . . .2 (50.8)
Side opposite ducts . . . . . .14 (355.6)
Bottom of unit . . . . . .0.50 (12.7)
Flue panel . . . . . .36 (914.4)

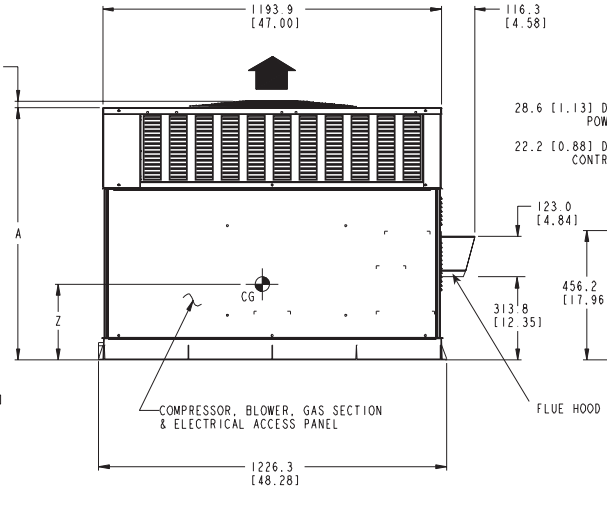
NEC REQ'D CLEARANCES. in. (mm)

Between units, power entry side . . . . . .42 (1066.8)
Unit and ungrounded surfaces, power entry side . . . . . .36 (914)
Unit and block or concrete walls and other grounded surfaces, control box side . . . . . .42 (1066.8)

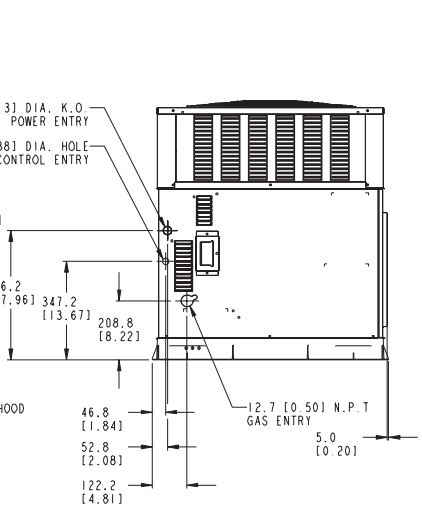
LEGEND
CG - Center of Gravity
COND - Condenser
EVAP - Evaporator
NEC - National Electrical Code
REQ'D - Required
Note: Dimensions are in in. (mm)



LEFT SIDE VIEW



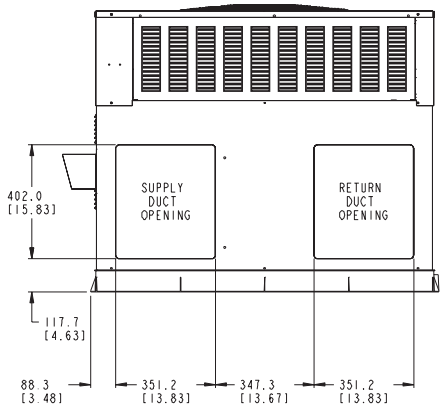
FRONT VIEW



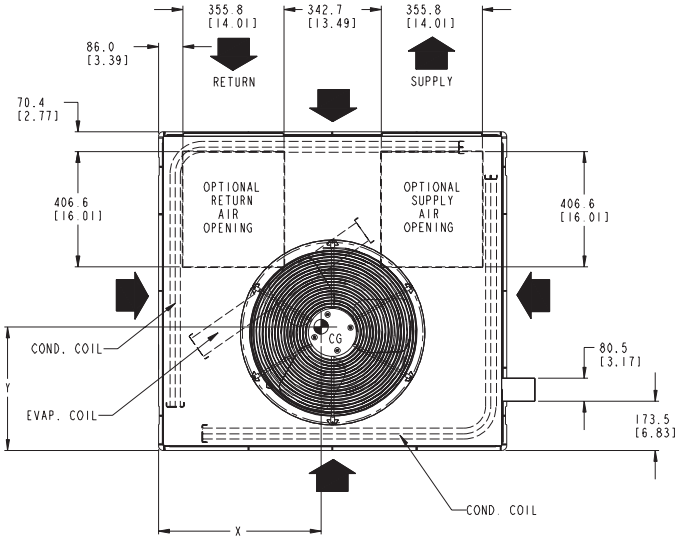
RIGHT SIDE VIEW

| UNIT | ELECTRICAL CHARACTERISTICS | UNIT WEIGHT | | UNIT HEIGHT IN. [MM] "A" | CENTER OF GRAVITY IN. [MM] | | |
|---|---|---|---|---|---|---|---|
| | | lb. | kg. | | X | Y | Z |
| **574B024040** | 208/230-1-60 | 350 | 159 | 39.02 [991.1] | 20 [508] | 19.3 [489] | 17.6 [447] |
| **574B030040/060** | 208/230-1-60 | | | | | | |
| **574B036060/090** | 208/230-1-60<br>208/230-3-60 | 388 | 176 | 41.02 [1041.9] | 20 [508] | 14 [355.6] | 13 [330.2] |

# BASE UNIT DIMENSIONS – 574B042-060




REAR VIEW




TOP VIEW

C99074

**REQUIRED CLEARANCE FOR OPERATION AND SERVICING**

| | in. [mm] |
|---|---|
| EVAP. COIL ACCESS SIDE | 36.00 [914.0] |
| POWER ENTRY SIDE | 36.00 [914.0] |
| (EXCEPT FOR NEC REQUIREMENTS) | |
| UNIT TOP | 36.00 [914.0] |
| SIDE OPPOSITE DUCTS | 36.00 [914.0] |
| DUCT PANEL | 12.00 [304.8] * |

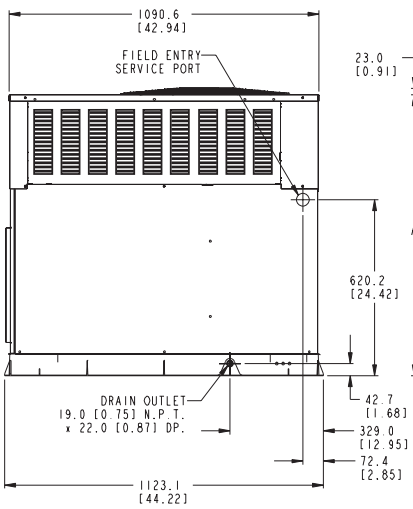
*MINIMUM DISTANCES: IF UNIT IS PLACED LESS THAN 12.00 [304.8] FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAYBE COMPROMISE.

**REQUIRED CLEARANCE TO COMBUSTIBLE MATL.**

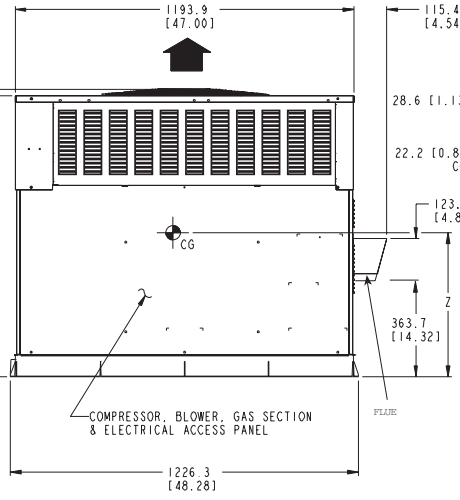
| | in. [mm] |
|---|---|
| TOP OF UNIT | 14.00 [355.6] |
| DUCT SIDE OF UNIT | 2.00 [50.8] |
| SIDE OPPOSITE DUCTS | 14.00 [355.6] |
| BOTTOM OF UNIT | 0.50 [12.7] |
| FLUE PANEL | 36.00 [914.4] |

**NEC. REQUIRED CLEARANCES.**

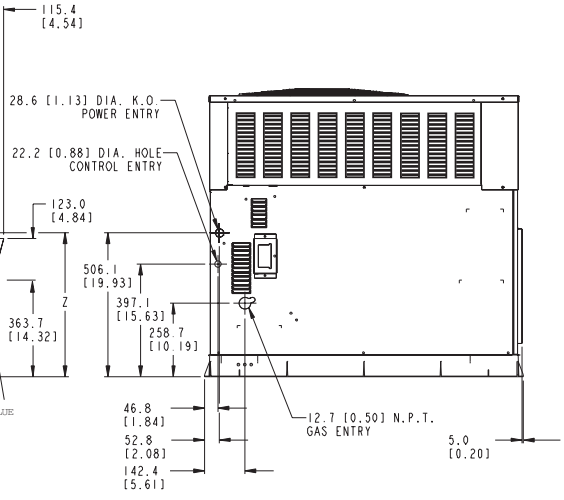
| | MILLIMETERS [IN.] |
|---|---|
| BETWEEN UNITS, POWER ENTRY SIDE | 42.00 [1066.8] |
| UNIT AND UNGROUNDED SURFACES, POWER ENTRY SIDE | 36.00 [914.0] |
| UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, POWER ENTRY SIDE | 42.00 [1066.8] |




LEFT SIDE VIEW



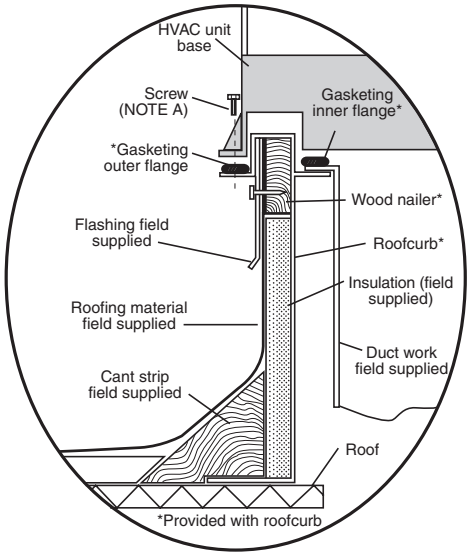

FRONT VIEW




RIGHT SIDE VIEW

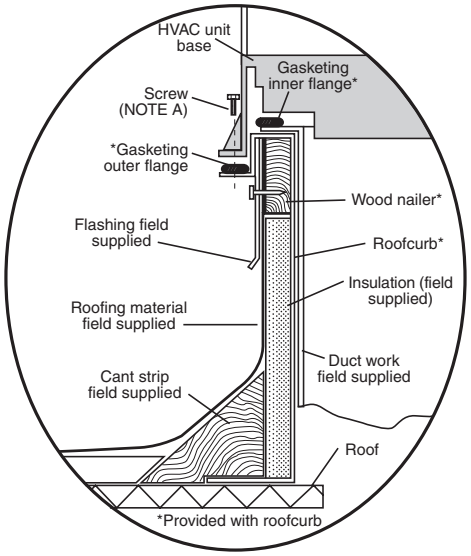
| UNIT | ELECTRICAL CHARACTERISTICS | UNIT WEIGHT | | UNIT HEIGHT IN. [MM] "A" | CENTER OF GRAVITY IN. [MM] | | |
|---|---|---|---|---|---|---|---|
| | | lb. | kg. | | X | Y | Z |
| **574B042060/090** | 208/230-1-60<br>208/230-3-60 | | | | | | |
| **574B048090/115/130** | 208/230-1-60<br>208/230-3-60 | 463 | 210 | 44.98 [1142.4] | 19.5 [495.3] | 17.6 [447.6] | 18.0 [457.2] |
| **574B060090/115/130** | 208/230-1-60,<br>208/230-3-60, | 499 | 226 | 46.98 [1193.3] | 21 [533.4] | 20 [508] | 17.6 [447.0] |

# ACCESSORY DIMENSIONS



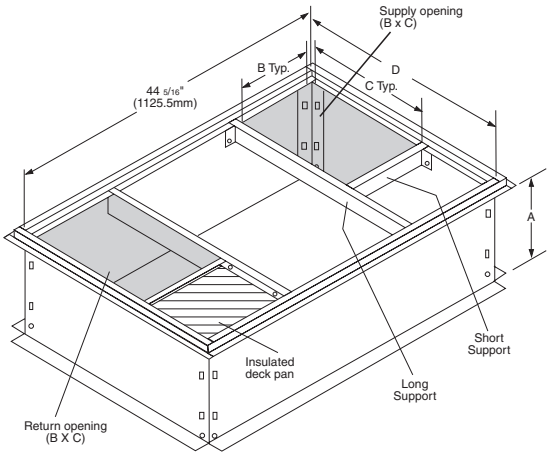

**Roof Curb for Small Cabinet**

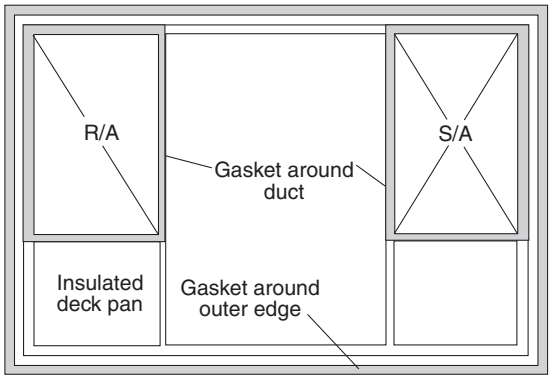
Note A: When unit mounting screw is used, retainer bracket must also be used.




**Roof Curb for Large Cabinet**

Note A: When unit mounting screw is used, retainer bracket must also be used.



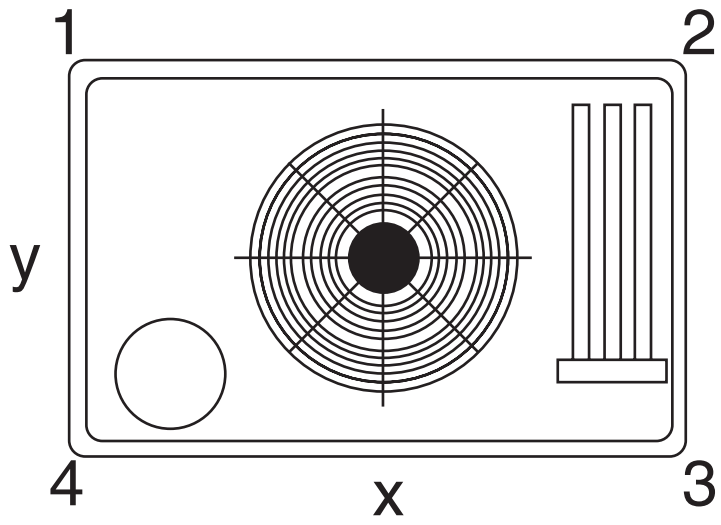

C00076

## Roof Curb Dimensions
## Side View

| | UNIT SIZE | ODS ORDER NUMBER | A IN. [MM] | B IN. [MM] | C IN. [MM] | D IN. [MM] |
|---|---|---|---|---|---|---|
| ROOF CURB | 024-036 | CPRFCURB006A00 | 8 [203] | 11 [279] | 16 1/2 [419] | 28 3/4 [730] |
| | | CPRFCURB007A00 | 14 [356] | 11 [279] | 16 1/2 [419] | 28 3/4 [730] |
| | 042-060 | CPRFCURB008A00 | 8 [203] | 16 3/16 [411] | 17 3/8 [441] | 40 1/4 [1022] |
| | | CPRFCURB009A00 | 14 [356] | 16 3/16 [411] | 17 3/8 [441] | 40 1/4 [1022] |

Notes:
1. Roof curb must be set up for unit being installed.
2. Seal strip must be applied as required to unit being installed.
3. Dimensions in [ ] are in millimeters.
4. Roof curb is made of 16 gage steel.
5. Table lists only the dimensions per part number that have changed.
6. Attach ductwork to curb (flanges of duct rest on curb).
7. Insulated panels: 1-in. thick fiberglass 1 lb. density.
8. Dimensions are in inches.
9. When unit mounting screw is used (Note A), a retainer bracket must be used as well. This bracket must also be used when required by code for hurricane or seismic conditions. This bracket is available through Micrometl.

## 574B CORNER WEIGHTS




| CORNER # | 024 | 030 | 036 | 042 | 048 | 060 |
|---|---|---|---|---|---|---|
| 1 | 70 | | 78 | | 92 | 100 |
| 2 | 54 | | 60 | | 72 | 78 |
| 3 | 84 | | 94 | | 111 | 120 |
| 4 | 141 | | 156 | | 188 | 201 |
| **TOTAL WEIGHT** | 350 | | 388 | | 463 | 499 |

## SELECTION PROCEDURE (WITH EXAMPLE)

**I DETERMINE COOLING AND HEATING REQUIREMENTS AT DESIGN CONDITIONS:**

Given:

Required Cooling Capacity (TC)..... 34,500 Btuh
Sensible Heat Capacity (SHC)..... 26,000 Btuh
Required Heating Capacity..... 60,000 Btuh
Condenser Entering Air Temperature.....95°F
Indoor-Air Temperature .....80°F edb 67°F ewb
Evaporator Air Quantity .....1200 CFM
External Static Pressure..... 0.2 in. wg
Electrical Characteristics.....230-1-60

**II SELECT UNIT BASED ON REQUIRED COOLING CAPACITY.**

Enter Net Cooling Capacities table at condenser entering temperature of 95 F. Unit 036 at 1225 cfm and 67 F ewb (entering wet bulb) will provide a total capacity of 36,500 Btuh and a SHC of 27,600 Btuh. Calculate SHC correction, if required, using Note 4 under Cooling Capacities tables.

**III SELECT HEATING CAPACITY OF UNIT TO PROVIDE DESIGN CONDITION REQUIREMENT.**

In the Heating Capacities and Efficiencies table on page 4, note that the unit 036090 will provide 70,000 Btuh with an input of 90,000 Btuh.

**IV DETERMINE FAN SPEED AND POWER REQUIREMENTS AT DESIGN CONDITIONS.**

Before entering the air delivery tables, calculate the total static pressure required. From the given example, the Wet Coil Pressure Drop Table, and the Filter Pressure Drop table on page 16, find at 1200 cfm:

| | |
|---|---|
| Wet Coil Pressure Drop | 0.032 in. ws |
| External Static Pressure | 0.2 in. wg |
| Filter Pressure Drop | 0.13 in. wg |
| Total Static Pressure | 0.362 in. wg |

Enter the table for Dry Coil Air Delivery — Horizontal and Downflow Discharge. At 0.362 ESP (external static pressure), the fan will deliver 1235 cfm with the NOM Speed pin selected.

**V SELECT UNIT THAT CORRESPONDS TO POWER SOURCE AVAILABLE.**

The Electrical Data table shows that the unit is designed to operate at 208/230-1-60.

# PERFORMANCE DATA
# STANDARD INDOOR ECM MOTOR
# COOLING CAPACITIES

**574B024 COOLING PERFORMANCE TABLE**

| Temp (F) Outdoor Air Entering Condenser | | Evaporator Air — CFM / BF | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 800/0.026 | | | | 900/0.032 | | | | 1000/0.04 | | | |
| | | Evaporator Air — Ewb (F) | | | | | | | | | | | |
| | | 62 | 63* | 67 | 72 | 62 | 63* | 67 | 72 | 62 | 63* | 67 | 72 |
| 75 | TC | 24.0 | 24.5 | 26.5 | 29.1 | 24.6 | 25.1 | 27.1 | 29.8 | 25.1 | 25.5 | 27.4 | 30.4 |
| | SHC | 21.9 | 21.3 | 18.7 | 15.4 | 23.5 | 22.8 | 19.8 | 16.1 | 25.0 | 24.2 | 20.8 | 16.7 |
| | kW | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 |
| 85 | TC | 22.9 | 23.3 | 25.3 | 27.9 | 23.5 | 23.9 | 25.8 | 28.5 | 23.9 | 24.3 | 26.2 | 28.9 |
| | SHC | 21.4 | 20.7 | 18.1 | 14.9 | 22.9 | 22.2 | 19.2 | 15.6 | 24.3 | 23.6 | 20.3 | 16.2 |
| | kW | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 |
| 95 | TC | 21.8 | 22.2 | 24.0 | 26.5 | 22.3 | 22.6 | 24.5 | 27.0 | 22.7 | 23.0 | 24.8 | 27.4 |
| | SHC | 20.8 | 20.2 | 17.6 | 14.3 | 22.3 | 21.6 | 18.7 | 15.0 | 23.6 | 22.9 | 19.7 | 15.6 |
| | kW | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.3 | 2.3 |
| 105 | TC | 20.5 | 20.9 | 22.6 | 25.0 | 21.0 | 21.3 | 23.0 | 25.4 | 21.6 | 21.7 | 23.3 | 25.7 |
| | SHC | 20.2 | 19.5 | 16.9 | 13.7 | 21.6 | 20.9 | 18.0 | 14.3 | 22.5 | 22.2 | 19.0 | 14.9 |
| | kW | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 115 | TC | 19.2 | 19.5 | 21.1 | 23.3 | 19.8 | 19.9 | 21.5 | 23.7 | 20.7 | 20.4 | 21.7 | 23.6 |
| | SHC | 19.4 | 18.8 | 16.3 | 13.0 | 20.6 | 20.2 | 17.3 | 13.7 | 21.5 | 21.2 | 18.3 | 14.1 |
| | kW | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.8 | 2.8 |
| 125 | TC | 17.8 | 18.0 | 19.4 | 21.4 | 18.5 | 18.5 | 19.5 | 21.7 | 19.0 | 19.0 | 19.9 | 21.9 |
| | SHC | 18.5 | 18.1 | 15.5 | 12.3 | 19.2 | 19.2 | 16.5 | 12.9 | 19.8 | 19.7 | 17.6 | 13.5 |
| | kW | 2.9 | 2.9 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.1 | 3.1 |

**574B030 COOLING PERFORMANCE TABLE**

| Temp (F) Outdoor Air Entering Condenser | | Evaporator Air—CFM/BF | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 875/0.08 | | | | 1000/0.09 | | | | 1125/0.10 | | | |
| | | Evaporator Air — Ewb (F) | | | | | | | | | | | |
| | | 62 | 63* | 67 | 72 | 62 | 63* | 67 | 72 | 62 | 63* | 67 | 72 |
| 75 | TC | | | | | | | | | | | | |
| | SHC | | | | | | | | | | | | |
| | kW | | | | | | | | | | | | |
| 85 | TC | | | | | | | | | | | | |
| | SHC | | | | | | | | | | | | |
| | kW | | | | | | | | | | | | |
| 95 | TC | | | | | | | | | | | | |
| | SHC | | | | | | | | | | | | |
| | kW | | | | | | | | | | | | |
| 105 | TC | | | | | | | | | | | | |
| | SHC | | | | | | | | | | | | |
| | kW | | | | | | | | | | | | |
| 115 | TC | | | | | | | | | | | | |
| | SHC | | | | | | | | | | | | |
| | kW | | | | | | | | | | | | |
| 125 | TC | | | | | | | | | | | | |
| | SHC | | | | | | | | | | | | |
| | kW | | | | | | | | | | | | |

See Legend and Notes on page 15.

# PERFORMANCE DATA (cont)
# STANDARD INDOOR ECM MOTOR
# COOLING CAPACITIES (cont)

**574B036 COOLING PERFORMANCE TABLE**

| Temp (F) Outdoor Air Entering Condenser | | Evaporator Air—CFM/BF | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1100/0.06 | | | | 1225/0.07 | | | | 1400/0.08 | | | |
| | | Evaporator Air — Ewb (F) | | | | | | | | | | | |
| | | 62 | 63* | 67 | 72 | 62 | 63* | 67 | 72 | 62 | 63* | 67 | 72 |
| 75 | TC | 36.2 | 36.8 | 39.7 | 43.8 | 36.9 | 37.4 | 40.3 | 44.4 | 37.9 | 38.1 | 41.0 | 45.1 |
| | SHC | 33.2 | 26.7 | 27.8 | 22.3 | 34.7 | 27.9 | 29.0 | 23.1 | 36.9 | 29.6 | 30.9 | 24.2 |
| | kW | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 |
| 85 | TC | 34.6 | 35.1 | 37.9 | 41.8 | 35.3 | 35.6 | 38.4 | 42.4 | 36.4 | 36.3 | 39.1 | 43.1 |
| | SHC | 32.4 | 26.0 | 27.1 | 21.6 | 34.0 | 27.1 | 28.3 | 22.4 | 35.6 | 28.9 | 30.2 | 23.6 |
| | kW | 2.9 | 2.9 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.1 | 3.1 | 3.1 | 3.2 |
| 95 | TC | 33.0 | 33.4 | 36.0 | 39.7 | 33.7 | 33.8 | 36.5 | 40.2 | 34.8 | 34.4 | 37.0 | 40.8 |
| | SHC | 31.6 | 25.3 | 26.4 | 20.9 | 32.9 | 26.4 | 27.6 | 21.7 | 34.4 | 28.1 | 29.4 | 22.8 |
| | kW | 3.2 | 3.2 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.4 | 3.4 | 3.4 | 3.4 | 3.5 |
| 105 | TC | 31.3 | 31.5 | 34.0 | 37.5 | 32.1 | 31.9 | 34.3 | 37.9 | 33.1 | 32.4 | 34.9 | 38.4 |
| | SHC | 30.6 | 24.5 | 25.6 | 20.1 | 31.5 | 25.7 | 26.8 | 20.9 | 32.8 | 27.3 | 28.6 | 22.0 |
| | kW | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.7 | 3.7 | 3.8 | 3.7 | 3.8 | 3.8 |
| 115 | TC | 29.6 | 29.4 | 31.8 | 35.0 | 30.4 | 29.8 | 32.1 | 35.4 | 31.3 | 30.3 | 32.6 | 35.8 |
| | SHC | 29.3 | 23.7 | 24.8 | 19.3 | 30.0 | 24.8 | 26.0 | 20.0 | 31.0 | 26.4 | 27.7 | 21.1 |
| | kW | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.1 | 4.1 | 4.1 | 4.2 |
| 125 | TC | 27.8 | 27.2 | 29.4 | 32.4 | 28.4 | 27.5 | 29.7 | 32.7 | 29.3 | 28.0 | 30.1 | 33.0 |
| | SHC | 27.5 | 22.8 | 23.9 | 18.4 | 28.2 | 23.8 | 25.0 | 19.1 | 29.0 | 25.4 | 26.7 | 20.2 |
| | kW | 4.4 | 4.3 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.5 | 4.5 | 4.5 | 4.5 |

**574B042 COOLING PERFORMANCE TABLE**

| Temp (F) Outdoor Air Entering Condenser | | Evaporator Air—CFM/BF | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1225/0.11 | | | | 1400/0.12 | | | | 1575/0.14 | | | |
| | | Evaporator Air — Ewb (F) | | | | | | | | | | | |
| | | 62 | 63* | 67 | 72 | 62 | 63* | 67 | 72 | 62 | 63* | 67 | 72 |
| 75 | TC | | | | | | | | | | | | |
| | SHC | | | | | | | | | | | | |
| | kW | | | | | | | | | | | | |
| 85 | TC | | | | | | | | | | | | |
| | SHC | | | | | | | | | | | | |
| | kW | | | | | | | | | | | | |
| 95 | TC | | | | | | | | | | | | |
| | SHC | | | | | | | | | | | | |
| | kW | | | | | | | | | | | | |
| 105 | TC | | | | | | | | | | | | |
| | SHC | | | | | | | | | | | | |
| | kW | | | | | | | | | | | | |
| 115 | TC | | | | | | | | | | | | |
| | SHC | | | | | | | | | | | | |
| | kW | | | | | | | | | | | | |
| 125 | TC | | | | | | | | | | | | |
| | SHC | | | | | | | | | | | | |
| | kW | | | | | | | | | | | | |

See Legend and Notes on page 15.

# PERFORMANCE DATA (cont)
# STANDARD INDOOR ECM MOTOR
# COOLING CAPACITIES (cont)

**574B048 COOLING PERFORMANCE TABLE**

| Temp (F) Outdoor Air Entering Condenser | | Evaporator Air—CFM/BF | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1260/0.06 | | | | 1400/0.06 | | | | 1600/0.08 | | | |
| | | Evaporator Air — Ewb (F) | | | | | | | | | | | |
| | | 62 | 63* | 67 | 72 | 62 | 63* | 67 | 72 | 62 | 63* | 67 | 72 |
| 75 | TC | 45.0 | 45.8 | 49.6 | 54.7 | 46.7 | 47.3 | 51.2 | 56.3 | 48.1 | 48.7 | 52.5 | 57.8 |
| | SHC | 39.3 | 32.0 | 33.4 | 27.2 | 42.6 | 34.3 | 35.8 | 28.9 | 45.8 | 36.8 | 38.4 | 30.6 |
| | kW | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.5 | 3.4 | 3.4 | 3.4 | 3.5 |
| 85 | TC | 42.8 | 43.6 | 47.2 | 52.1 | 44.3 | 44.9 | 48.6 | 53.5 | 45.6 | 46.1 | 49.9 | 54.8 |
| | SHC | 38.2 | 30.9 | 32.3 | 26.2 | 41.3 | 33.2 | 34.7 | 27.7 | 44.3 | 35.5 | 37.3 | 29.4 |
| | kW | 3.7 | 3.7 | 3.8 | 3.8 | 3.7 | 3.7 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 95 | TC | 40.6 | 41.3 | 44.7 | 49.4 | 41.8 | 42.4 | 46.0 | 50.7 | 44.2 | 43.7 | 47.0 | 51.8 |
| | SHC | 36.9 | 29.8 | 31.2 | 25.2 | 39.9 | 32.0 | 33.6 | 26.7 | 43.0 | 34.6 | 36.1 | 28.3 |
| | kW | 4.1 | 4.1 | 4.2 | 4.2 | 4.1 | 4.1 | 4.2 | 4.2 | 4.2 | 4.1 | 4.2 | 4.2 |
| 105 | TC | 38.2 | 38.9 | 42.1 | 46.4 | 39.6 | 39.8 | 43.1 | 47.6 | 41.5 | 40.8 | 44.0 | 48.5 |
| | SHC | 35.7 | 28.7 | 30.1 | 24.0 | 38.3 | 30.7 | 32.3 | 25.5 | 40.0 | 33.2 | 34.8 | 27.0 |
| | kW | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.7 | 4.6 | 4.6 | 4.6 | 4.7 |
| 115 | TC | 35.7 | 36.3 | 39.3 | 43.3 | 38.2 | 37.1 | 40.1 | 44.2 | 38.7 | 37.9 | 40.8 | 45.0 |
| | SHC | 34.4 | 27.5 | 28.9 | 22.9 | 35.7 | 29.5 | 31.0 | 24.3 | 38.2 | 31.8 | 33.5 | 25.8 |
| | kW | 5.0 | 5.0 | 5.1 | 5.1 | 5.1 | 5.0 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| 125 | TC | 33.4 | 33.4 | 36.2 | 39.4 | 34.6 | 34.1 | 36.9 | 40.5 | 36.1 | 34.8 | 37.5 | 41.2 |
| | SHC | 32.1 | 26.2 | 27.6 | 21.5 | 33.8 | 28.2 | 29.7 | 22.9 | 35.6 | 30.2 | 31.9 | 24.4 |
| | kW | 5.6 | 5.6 | 5.6 | 5.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |

**574B060 COOLING PERFORMANCE TABLE**

| Temp (F) Outdoor Air Entering Condenser | | Evaporator Air — CFM/BF | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1500/0.004 | | | | 1750/0.007 | | | | 2000/0.01 | | | |
| | | Evaporator Air — Ewb (F) | | | | | | | | | | | |
| | | 62 | 63* | 67 | 72 | 62 | 63* | 67 | 72 | 62 | 63* | 67 | 72 |
| 75 | TC | 57.2 | 58.2 | 62.4 | 68.1 | 58.8 | 59.7 | 64.0 | 69.8 | 60.0 | 60.8 | 64.9 | 70.8 |
| | SHC | 49.4 | 47.9 | 41.6 | 33.8 | 53.6 | 51.8 | 44.5 | 35.4 | 57.6 | 55.4 | 47.1 | 36.8 |
| | kW | 4.1 | 4.1 | 4.2 | 4.2 | 4.2 | 4.3 | 4.3 | 4.4 | 4.4 | 4.4 | 4.5 | 4.6 |
| 85 | TC | 54.7 | 55.6 | 59.7 | 65.2 | 56.2 | 57.0 | 61.1 | 66.6 | 57.4 | 58.1 | 61.9 | 67.4 |
| | SHC | 48.2 | 46.7 | 40.4 | 32.6 | 52.4 | 50.5 | 43.2 | 34.2 | 56.3 | 54.2 | 45.8 | 35.6 |
| | kW | 4.5 | 4.5 | 4.6 | 4.7 | 4.7 | 4.7 | 4.8 | 4.9 | 4.8 | 4.9 | 5.0 | 5.0 |
| 95 | TC | 52.2 | 53.0 | 56.9 | 62.0 | 53.5 | 54.3 | 58.0 | 63.2 | 55.0 | 55.3 | 58.7 | 64.1 |
| | SHC | 47.0 | 45.4 | 39.2 | 31.4 | 51.1 | 49.2 | 41.9 | 32.9 | 55.0 | 52.9 | 44.5 | 34.4 |
| | kW | 5.0 | 5.0 | 5.1 | 5.2 | 5.1 | 5.2 | 5.3 | 5.3 | 5.2 | 5.3 | 5.5 | 5.5 |
| 105 | TC | 49.4 | 50.2 | 53.8 | 58.7 | 50.7 | 51.4 | 54.8 | 59.6 | 52.5 | 52.4 | 55.4 | 60.2 |
| | SHC | 45.7 | 44.1 | 37.9 | 30.1 | 49.8 | 47.9 | 40.6 | 31.6 | 52.5 | 51.6 | 43.2 | 33.0 |
| | kW | 5.5 | 5.6 | 5.6 | 5.7 | 5.7 | 5.7 | 5.8 | 5.9 | 5.8 | 5.8 | 6.0 | 6.1 |
| 115 | TC | 46.5 | 47.2 | 50.5 | 55.0 | 48.1 | 48.3 | 51.3 | 56.8 | 49.7 | 49.7 | 51.8 | 57.0 |
| | SHC | 44.3 | 42.7 | 36.4 | 28.7 | 48.1 | 46.6 | 39.2 | 30.6 | 49.7 | 49.7 | 41.8 | 31.7 |
| | kW | 6.1 | 6.2 | 6.2 | 6.3 | 6.2 | 6.3 | 6.4 | 6.4 | 6.4 | 6.4 | 6.6 | 6.6 |
| 125 | TC | 43.3 | 43.9 | 46.7 | 52.2 | 45.2 | 45.1 | 47.4 | 52.5 | 46.4 | 46.4 | 47.9 | 52.2 |
| | SHC | 42.8 | 41.2 | 34.9 | 27.8 | 45.2 | 45.1 | 37.6 | 28.9 | 46.4 | 46.4 | 40.2 | 29.7 |
| | kW | 6.7 | 6.8 | 6.8 | 6.8 | 6.8 | 6.9 | 7.0 | 7.0 | 7.0 | 7.0 | 7.2 | 7.2 |

LEGEND

**BF** — Bypass Factor
**Ewb** — Entering Wet-Bulb
**kW** — Total Unit Power Input
**SHC** — Sensible Heat Capacity (1000 Btuh)
**TC** — Cooling Capacity (1000 Btuh)
**ECM** — Electronic Computated Motor
* — TVA Conditions (75°F entering dry bulb)

NOTES:

1. Ratings are net; they account for the effects of the evaporator-fan motor power and heat.
2. Direct interpolation is permissible. Do not extrapolate.
3. The following formulas may be used:

$$t_{ldb} = t_{edb} - \frac{\text{sensible capacity (Btuh)}}{1.10 \times \text{cfm}}$$

$t_{lwb}$ = Wet-bulb temperature corresponding to enthalpy of air leaving evaporator coil ($h_{lwb}$)

$$h_{lwb} = h_{ewb} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{cfm}}$$

Where: $h_{ewb}$ = Enthalpy of air entering evaporator coil

4. The SHC is based on 80°F edb temperature of air entering evaporator coil. Below 80°F edb, subtract (Corr Factor x CFM) from SHC above 80°F edb, add (Corr Factor x CFM) to SHC Correction Factor = 1.10 x (1 – BF) x (edb – 80)

## FILTER PRESSURE DROP (In. wg)

| FILTER SIZE | CFM | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 |
| 20 X 20 X 1 | 0.05 | 0.07 | 0.08 | 0.10 | 0.12 | 0.13 | 0.14 | 0.15 | — | — | — | — | — | — | — | — | — | — | — |
| 20 X 24 X 1 | — | — | — | — | 0.09 | 0.10 | 0.11 | 0.13 | 0.14 | 0.15 | 0.16 | — | — | — | — | — | — | — | — |
| 24 X 30 X 1 | — | — | — | — | — | — | — | 0.07 | 0.08 | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 |

## 574B COOLING DRY COIL ECM AIRFLOW—SMALL CABINET

| UNIT SIZE | CFM ADJUST PIN SELECT | LO PIN | | | NOM PIN | | | HI PIN | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | EXTERNAL STATIC PRESSURE RANGE | 0.0–0.39 | 0.4–0.69 | 0.7–1.0 | 0.0–0.39 | 0.4–0.69 | 0.7–1.0 | 0.0–0.39 | 0.4–0.69 | 0.7–1.0 |
| 024 | COOLING | 745 | 675 | — | 835 | 750 | 690 | 940 | 880 | 815 |
| | COOLING DEHUMIDIFY | 675 | 625 | — | 675 | 650 | 600 | 755 | 730 | 705 |
| 030 | COOLING | 940 | 860 | 785 | 1020 | 965 | 895 | 1185 | 1100 | 1010 |
| | COOLING DEHUMIDIFY | 820 | 785 | 735 | 820 | 800 | 770 | 955 | 920 | 880 |
| 036 | COOLING | 1025 | 935 | — | 1145 | 1085 | 1005 | 1320 | 1260 | 1180 |
| | COOLING DEHUMIDIFY | 925 | 885 | — | 925 | 900 | 870 | 1060 | 1040 | 1010 |

## 574B COOLING DRY COIL ECM AIRFLOW—LARGE CABINET

| UNIT SIZE | CFM ADJUST PIN SELECT | LO PIN | NOM PIN | HI PIN |
|---|---|---|---|---|
| | EXTERNAL STATIC PRESSURE RANGE | 0.1–1.0 | 0.1–1.0 | 0.1–1.0 |
| 042 | COOLING | 1035 | 1095 | 1280 |
| | COOLING DEHUMIDIFY | 880 | 880 | 1025 |
| 048 | COOLING | 1150 | 1285 | 1500 |
| | COOLING DEHUMIDIFY | 1025 | 1025 | 1200 |
| 060 | COOLING | 1480 | 1630 | 1920 |
| | COOLING DEHUMIDIFY | 1305 | 1305 | 1535 |

## 574B HEATING ECM AIRFLOW—SMALL CABINET

| EASY SELECT™ BOARD SETTING (CFM) | | 700 | | | 800 | | | 1100 | | | 1250 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UNIT SIZE | EXTERNAL STATIC PRESSURE | 0.0–0.39 | 0.4–0.69 | 0.7–1.0 | 0.0–0.39 | 0.4–0.69 | 0.7–1.0 | 0.0–0.39 | 0.4–0.69 | 0.7–1.0 | 0.0–0.39 | 0.4–0.69 | 0.7–1.0 |
| | GAS HEAT SIZE | | | | | | | | | | | | |
| 024 | 040 | — | — | — | 855 | 770 | 710 | — | — | — | — | — | — |
| 030 | 040 | — | — | — | 880 | 840 | 805 | — | — | — | — | — | — |
| | 060 | — | — | — | — | — | — | 1030 | 970 | 910 | — | — | — |
| 036 | 060 | — | — | — | — | — | — | 1035 | 995 | 955 | — | — | — |
| | 090 | — | — | — | — | — | — | — | — | — | 1170 | 1110 | 1025 |

## 574B HEATING ECM AIRFLOW—LARGE CABINET

| EASY SELECT™ BOARD SETTING (CFM) | | 1000 | 1250 | 1600 | 1750 | 1800 |
|---|---|---|---|---|---|---|
| UNIT SIZE | EXTERNAL STATIC PRESSURE | 0.0–1.0 | 0.0–1.0 | 0.0–1.0 | 0.0–1.0 | 0.0–1.0 |
| | GAS HEAT SIZE | | | | | |
| 042 | 060 | 1000 | — | — | — | — |
| | 090 | — | 1250 | — | — | — |
| 048 | 090 | — | 1250 | — | — | — |
| | 115 | — | — | 1600 | — | — |
| | 130 | — | — | — | 1750 | — |
| 060 | 090 | — | 1250 | — | — | — |
| | 115 | — | — | 1600 | — | — |
| | 130 | — | — | — | — | 1800 |

## 574B ECM AIR FLOW VS. TEMPERATURE RISE CHART

| UNIT | COOLING SIZE | RATED GAS INPUT RATE (X 1000) | AIRFLOW SETTING EAST SELECT™ (SCFM) | CALCULATED TEMPERATURE RISE | MIN. TEMP RISE | MAX TEMP RISE | MAX DISCH. TEMP |
|---|---|---|---|---|---|---|---|
| 574B | 024 | 40 | 800 | 36.5 | 20 | 50 | 175 |
| 574B | 030 | 40 | 800 | 36.5 | 20 | 50 | 175 |
| 574B | 030 | 60 | 1100 | 40 | 35 | 65 | 165 |
| 574B | 036 | 60 | 1100 | 40 | 25 | 55 | 165 |
| 574B | 036 | 90 | 1200 | 54 | 45 | 75 | 175 |
| 574B | 042 | 60 | 1000 | 44 | 20 | 50 | 165 |
| 574B | 042 | 90 | 1250 | 53 | 35 | 65 | 170 |
| 574B | 048 | 90 | 1250 | 53 | 25 | 55 | 165 |
| 574B | 048 | 115 | 1600 | 53 | 35 | 65 | 170 |
| 574B | 048 | 130 | 1750 | 54 | 40 | 70 | 175 |
| 574B | 060 | 90 | 1600 | 41 | 25 | 55 | 155 |
| 574B | 060 | 115 | 1600 | 53 | 35 | 65 | 170 |
| 574B | 060 | 130 | 1800 | 53 | 40 | 70 | 175 |

## PERFORMANCE DATA (CONT)

**ECONOMIZER/1-IN. FILTER PRESSURE DROP (in. wg)**

| UNIT 574B | PRESSURE DROP |
|---|---|
| **024-036** | 0.20 |
| **042-060** | 0.25 |

## HIGH ALTITUDE COMPENSATION

**NATURAL GAS ONLY**
**ORIFICE CONVERSION — 3.5 in. wc**
**MANIFOLD PRESSURE***

| ALTITUDE (ft) | INPUT (Btuh) | OUTPUT (Btuh) | ORIFICE NUMBER† |
|---|---|---|---|
| **0-2000** | 40,000 | 31,000 | #44 |
| | 60,000 | 46,000 | #38 |
| | 90,000 | 70,000 | #38 |
| | 115,000 | 92,000 | #33 |
| | 130,000 | 103,000 | #31 |
| **2001-6000** | 32,075 | 24,858 | #48 |
| | 48,547 | 37,219 | #42 |
| | 72,820 | 56,638 | #42 |
| | 90,094 | 72,075 | #37 |
| | 102,630 | 81,315 | #34 |

**LIQUID PROPANE ONLY**
**ORIFICE CONVERSION — 3.5 in. wc**
**MANIFOLD PRESSURE***

| ALTITUDE (ft) | INPUT (Btuh) | OUTPUT (Btuh) | ORIFICE NUMBER† |
|---|---|---|---|
| **0-2000** | 40,000 | 31,000 | #50 |
| | 57,000 | 43,720 | #46 |
| | 85,500 | 66,520 | #46 |
| | 115,000 | 92,000 | #42 |
| | 127,000 | 100,580 | #41 |
| **2001-6000** | 33,834 | 26,221 | #52 |
| | 49,238 | 37,766 | #48 |
| | 73,856 | 57,461 | #48 |
| | 94,571 | 75,657 | #44 |
| | 101,284 | 80,214 | #43 |

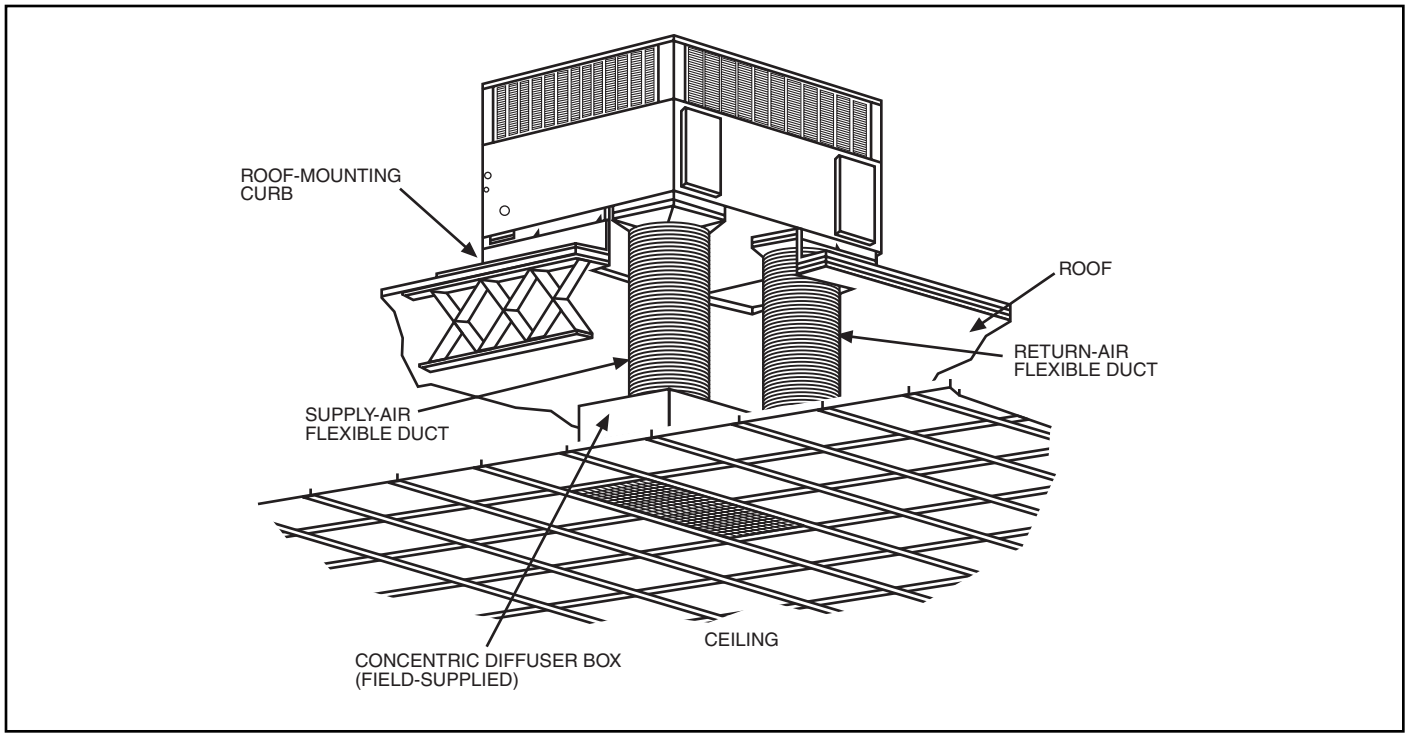
* As the height above sea level increases, there is less oxygen per cubic ft of air. Therefore, heat input rate should be reduced at higher altitudes.

† Orifices available through your Bryant distributor.

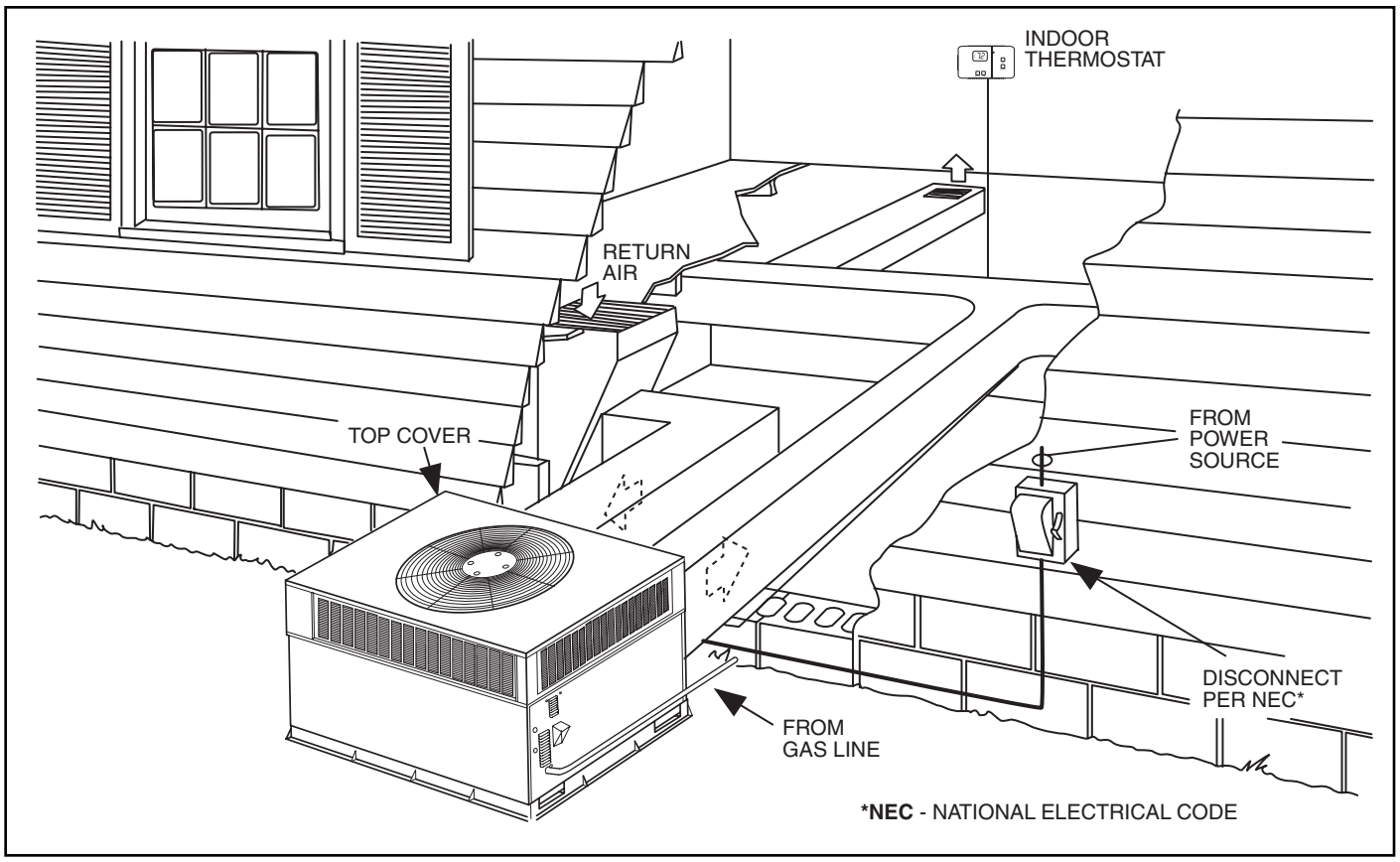
## 574B ECM WET COIL PRESSURE DROP

| UNIT SIZE | STANDARD CFM | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 |
| **024** | 0.005 | 0.007 | 0.010 | 0.012 | 0.015 | — | — | — | — | — | — | — | — | — | — | — |
| **030** | — | 0.007 | 0.010 | 0.012 | 0.015 | 0.018 | 0.021 | 0.024 | — | — | — | — | — | — | — | — |
| **036** | — | — | — | 0.019 | 0.023 | 0.027 | 0.032 | 0.037 | 0.042 | 0.047 | — | — | — | — | — | — |
| **042** | — | — | — | — | 0.014 | 0.017 | 0.020 | 0.024 | 0.027 | 0.031 | 0.035 | 0.039 | 0.043 | — | — | — |
| **048** | — | — | — | — | — | — | 0.027 | 0.032 | 0.036 | 0.041 | 0.046 | 0.052 | 0.057 | 0.063 | 0.068 | — |
| **060** | — | — | — | — | — | — | — | — | — | 0.029 | 0.032 | 0.036 | 0.040 | 0.045 | 0.049 | 0.053 |

## TYPICAL PIPING AND WIRING



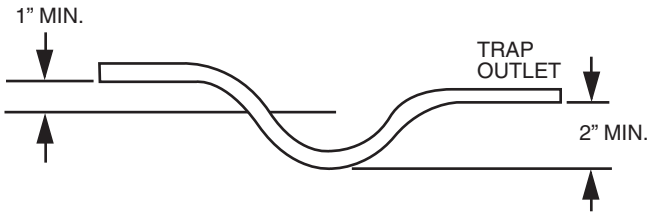

C00023




C00022

## APPLICATION DATA

**Condensate trap** — A 2-in. condensate trap must be field supplied.




**Ductwork** — Secure downflow discharge ductwork to roof curb. For horizontal discharge applications, attach ductwork to unit with flanges.

**To convert a unit to downflow discharge** — Units are equipped with factory-installed inserts in the down-flow openings. Removal of the inserts is similar to removing an electrical knock-out. The unit is factory equipped with duct covers to seal the horizontal discharge openings in the unit. Units installed in horizontal discharge orientation do not require duct covers.

**Maximum cooling airflow** — To minimize the possibility of condensate blow-off from the evaporator, airflow through the units should not exceed 450 cfm per ton.

**Minimum cooling airflow** — The minimum cooling airflow is 350 cfm per ton.

**Minimum cooling ambient operating temperature** — All standard units have a minimum cooling ambient operating temperature of 55°F. With accessory low ambient temperature kit, units can operate at temperatures down to 0°F.

**Maximum operating outdoor air temperature** — for cooling is 125°F.

# ELECTRICAL DATA
## 574B (STANDARD) ELECTRICAL DATA

| UNIT SIZE 574B | V-PH-Hz | VOLTAGE RANGE | | COMPRESSOR | | OUTDOOR FAN MOTOR | INDOOR FAN MOTOR | POWER SUPPLY | |
|---|---|---|---|---|---|---|---|---|---|
| | | Min | Max | RLA | LRA | FLA | FLA | MCA | MAX FUSE OR BKR |
| 024 | 208/230–1–60 | 187 | 253 | 13.5 | 61.0 | 0.8 | 4.3 | 22.0/22.0 | 30/30 |
| 030 | 208/230–1–60 | 187 | 253 | 16.9 | 73.0 | 0.8 | 4.3 | 25.0/25.0 | 30/30 |
| 036 | 208/230–1–60 | 187 | 253 | 15.9 | 83.0 | 0.8 | 6.8 | 28.7/28.7 | 35/35 |
| | 208/230–3–60 | 187 | 253 | 12.2 | 77.0 | 0.8 | 6.8 | 22.9/22.9 | 30/30 |
| 042 | 208/230–1–60 | 187 | 253 | 22.4 | 105.0 | 0.8 | 6.8 | 35.6/35.6 | 45/45 |
| | 208/230–3–60 | 187 | 253 | 15.4 | 88.0 | 0.8 | 6.8 | 26.9/26.9 | 35/35 |
| 048 | 208/230–1–60 | 187 | 253 | 21.3 | 109.0 | 1.6 | 6.8 | 35.0/35.0 | 45/45 |
| | 208/230–3–60 | 187 | 253 | 14.7 | 91.0 | 1.6 | 6.8 | 26.8/26.8 | 35/35 |
| 060 | 208/230–1–60 | 187 | 253 | 27.0 | 145.0 | 1.6 | 9.1 | 44.5/44.5 | 60/60 |
| | 208/230–3–60 | 187 | 253 | 18.1 | 123.0 | 1.6 | 9.1 | 33.3/33.3 | 40/40 |

LEGEND

FLA — Full Load Amps
LRA — Locked Rotor Amps
MCA — Minimum Circuit Amps
MOCP — Maximum Overcurrent Protection
RLA — Rated Load Amps

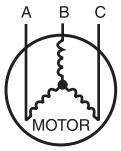
*Heater capacity (KW) based on heater voltage of 208v, 240v, & 480v. If power distribution voltage to unit varies from rated heater voltage, heater KW will vary accordingly.

NOTES:
1. In compliance with NEC (National Electrical Code) requirements for multimotor and combination load equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be Power Supply fuse. The CGA (Canadian Gas Association) units may be fuse or circuit breaker.
2. Minimum wire size is based on 60 C copper wire. If other than 60 C wire is used, or if length exceeds wire length in table, determine size from NEC.
3. Unbalanced 3-Phase Supply Voltage
   *Never operate a motor where a phase imbalance in supply voltage is greater than 2%.* Use the following formula to determine the percentage of voltage imbalance.

   % Voltage imbalance

   $$= 100 \times \frac{\text{max voltage deviation from average voltage}}{\text{average voltage}}$$

EXAMPLE: Supply voltage is 460-3-60.




AB = 452 v
BC = 464 v
AC = 455 v

$$\text{Average Voltage} = \frac{452 + 464 + 455}{3}$$

$$= \frac{1371}{3}$$

$$= 457$$

Determine maximum deviation from average voltage.
(AB) 457 452 = 5 v
(BC) 464 457 = 7 v
(AC) 457 455 = 2 v

Maximum deviation is 7 v.

Determine percent of voltage imbalance.

$$\% \text{ Voltage Imbalance} = 100 \times \frac{7}{457}$$

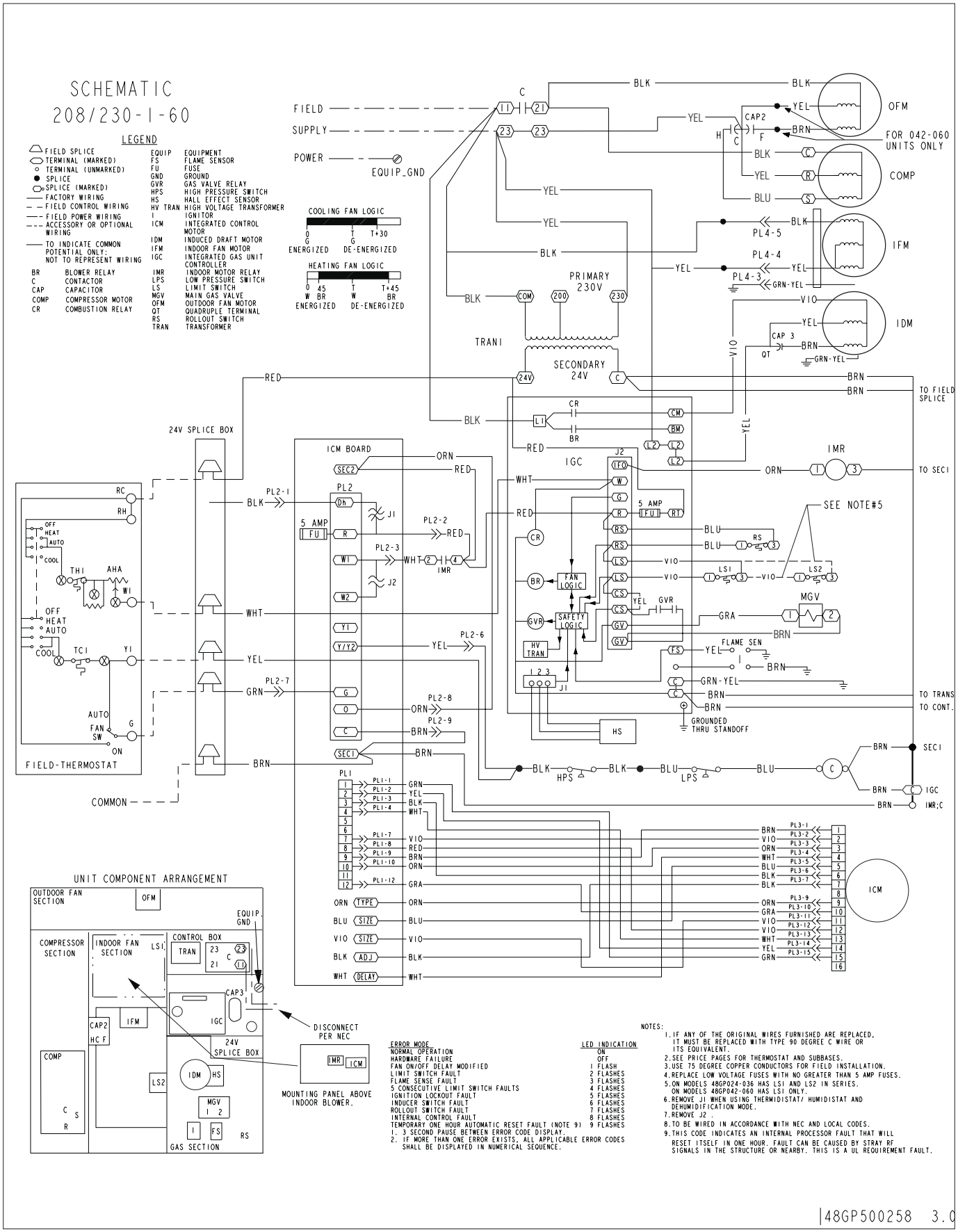
$$= 1.53\%$$

This amount of phase imbalance is satisfactory as it is below the maximum allowable 2%.

IMPORTANT: If the supply voltage phase imbalance is more than 2%, contact your local electric utility company immediately.

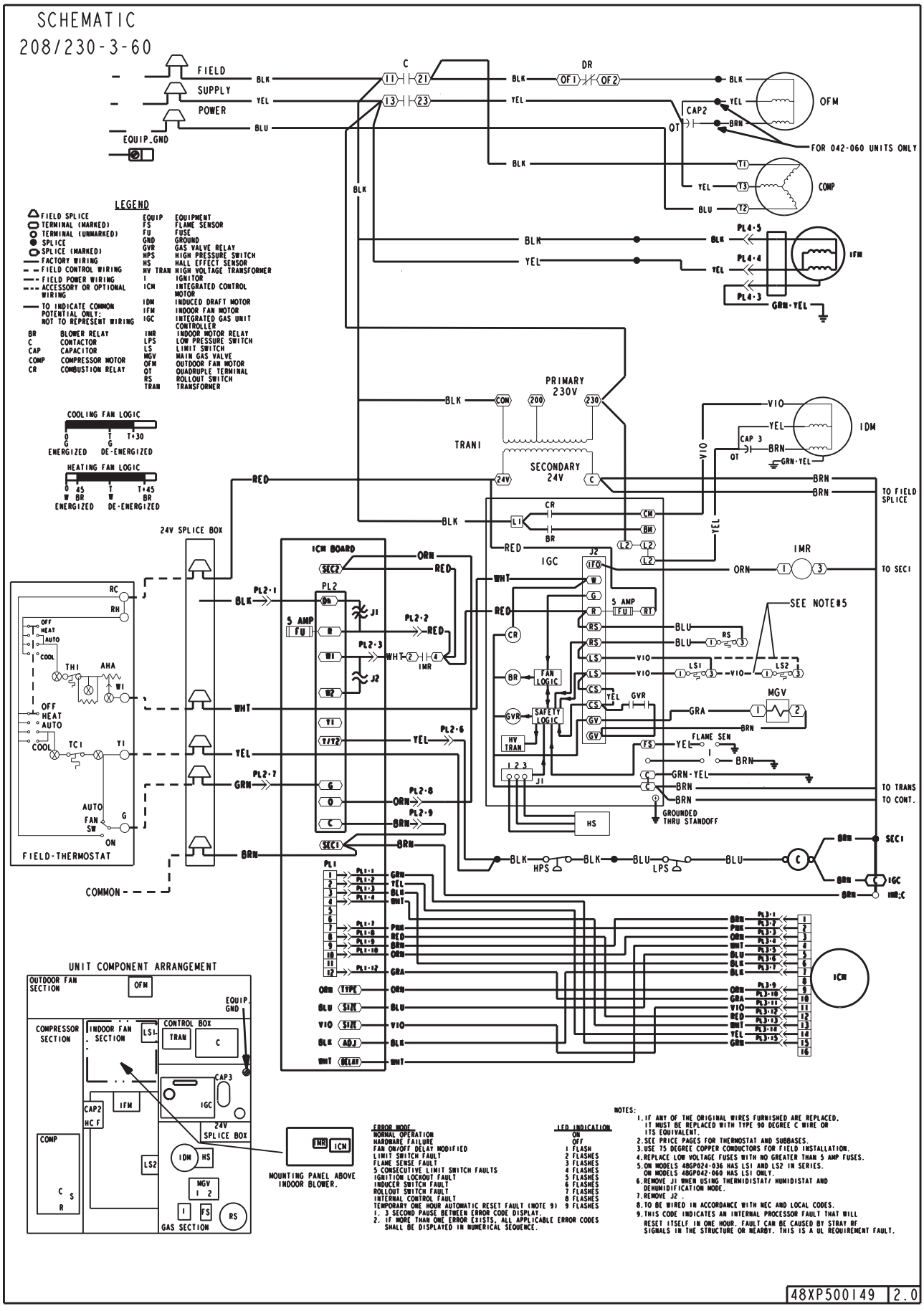
C99024

# TYPICAL WIRING SCHEMATIC—208/230-1-60 SHOWN




C01035

# TYPICAL WIRING SCHEMATIC—208/230-3-60 SHOWN




48XP500149 | 2.0 C03025

# CONTROLS

## OPERATING SEQUENCE

**Heating —** On a call for heating, terminal "W" of the thermostat is energized, starting the induced-draft motor. When the hall-effect sensor on the induced-draft motor senses that it has reached the required speed, the burner sequence begins. This function is performed by the integrated gas control (IGC). The evaporator fan motor is energized 45 seconds after flame is established. When the thermostat is satisfied and "W" is de-energized, the burners stop firing and the evaporator fan motor shuts off after a 45-second time-off delay.

**Cooling —** When the room temperature rises to a point that is slightly above the cooling control setting of the thermostat, the thermostat completes the circuit between thermostat terminal R to terminals Y and G. These completed circuits through the thermostat connect contactor coil (C) (through unit wire Y) and blower relay coil (BR) (through unit wire G) across the 24-v secondary of transformer (TRAN).

The normally open contacts of energized contactor (C) close and complete the circuit through compressor motor (COMP) to condenser (outdoor) fan motor (OFM). Both motors start instantly.

The indoor blower will cycle on and off with a call for cooling per the on/off delay profile selected on the easy select™ circuit board.

**NOTE:** Once the compressor has started and then has stopped, it should not be started again until 5 minutes have elapsed.

The cooling cycle remains "on" until the room temperature drops to a point that is slightly below the cooling control setting of the room thermostat. At this point, the thermostat "breaks" the circuit between thermostat terminal R to terminals Y and G. These open circuits de-energize contactor coil C and relay coil BR. The condenser and compressor motors stop. After a 30-second delay, the blower motor stops. The unit is in a "standby" condition, waiting for the next "call for cooling" from the room thermostat.

**The indoor blower** operation with a call for fan operation (G) in cooling mode will perform by the on/off delay profile selected on the Easy Select™ circuit board.

# GUIDE SPECIFICATIONS

**PACKAGED GAS HEATING/ELECTRIC COOLING UNITS CONSTANT VOLUME APPLICATION**

HVAC GUIDE SPECIFICATIONS
SIZE RANGE: 2 TO 5 TONS, NOMINAL COOLING
40,000 TO 130,000 BTUH,
NOMINAL HEATING INPUT

BRYANT MODEL NUMBER: 574B

**PART 1 — GENERAL**

1.01 SYSTEM DESCRIPTION

Outdoor rooftop mounted, gas heating/electric cooling unit utilizing a scroll compressor for cooling duty. Unit shall discharge supply air vertically or horizontally as shown on contract drawings. Condenser fan/coil section shall have a draw-thru design with vertical discharge for minimum sound levels.

1.02 QUALITY ASSURANCE

A. Unit shall be rated in accordance with ARI Standards 210/240-94 and 270-95 (Sound ratings for 270-95 are not listed with ARI).
B. Unit shall be designed in accordance with UL Standard 1995.
C. Unit shall be manufactured in a facility registered to ISO 9001 manufacturing quality standard.
D. Unit shall be UL listed and certified under Canadian Standards as a total package for safety requirements.
E. Roof curb shall be designed to conform to NRCA Standards.
F. Insulation and adhesives shall meet NFPA 90A requirements for flame spread and smoke generation.
G. Cabinet insulation shall meet ASHRAE Standard 62P.

1.03 DELIVERY, STORAGE AND HANDLING

Unit shall be stored and handled per manufacturer's recommendations.

**PART 2 — PRODUCTS**

2.01 EQUIPMENT

A. General:
Factory-assembled, single-piece, heating and cooling unit. Contained within the enclosure shall be all factory wiring, piping, controls, refrigerant charge with R-410A refrigerant, and special features required prior to field start-up.
B. Unit Cabinet:
1. Unit Cabinet shall be constructed of phosphated, zinc-coated, pre-painted steel capable of with-standing 500 hours in salt spray.
2. Normal service shall be through a single removable cabinet panel.
3. The unit shall be constructed on a rust proof unit base that has an externally trapped, integrated sloped drain pan.
4. Evaporator fan compartment top surface shall be insulated with a minimum 1/2-in. thick, flexible fiberglass insulation, coated on the air side and retained by adhesive and mechanical means. The evaporator wall sections will be insulated with a minimum semi-rigid foil-faced board capable of being wiped clean. Aluminum foil-faced fiberglass insulation shall be used in the entire indoor air cavity section.
5. Unit shall have a field-supplied condensate trap.
C. Fans:
1. The evaporator fan shall be direct-drive, variable speed motor and control.
2. Fan wheel shall be made from steel, and shall be double-inlet type with forward curved blades with corrosion resistant finish. Fan wheel shall be dynamically balanced.
3. Condenser fan shall be direct drive propeller type with aluminum blades riveted to corrosion resistant steel spiders, be dynamically balanced, and discharge air vertically.
D. Compressor:
1. Fully hermetic compressors with factory-installed vibration isolation.
2. Scroll compressors shall be standard on all units.
E. Coils:
Evaporator and condenser coils shall have aluminum plate fins mechanically bonded to seamless copper tubes with all joints brazed. (Copper/copper and vinyl-coated construction available as option). Tube sheet openings shall be belled to prevent tube wear.
F. Heating Section:
1. Induced-draft combustion type with energy saving direct spark ignition system and redundant main gas valve.
2. Induced-draft motors shall be provided with solid-state hall-effect sensor to ensure adequate airflow for combustion.
3. The heat exchangers shall be constructed of aluminized steel for corrosion resistance.
4. Burners shall be of the in-shot type constructed of aluminum coated steel.
5. All gas piping and electric power shall enter the unit cabinet at a single location.
G. Refrigerant Components:
Refrigerant expansion shall be of the fixed orifice type.
H. Filters:
Filter section shall consist of field-installed, throwaway, 1-in. thick fiberglass filters of commercially available sizes.
I. Controls and Safeties:
1. Unit controls shall be complete with a self-contained low voltage control circuit.
2. Compressors shall incorporate a solid-state compressor protector that provides reset capability.
3. Unit shall provide high and loss-of-charge/low pressure safety protection.
J. Operating Characteristics:
1. Unit shall be capable of starting and running at 125°F ambient outdoor temperature exceeding maximum load criteria of ARI Standard 210.
2. Compressor with standard controls shall be capable of operation down to 55°F ambient outdoor temperature.
3. Units shall be provided with a selectable option of fan time delay to prevent cold air delivery before the heat exchanger warms up (see Easy Select™ Board).
4. Fan off delay for cooling is selected on Easy Select™ Board.

K. Electrical Requirements:
All unit power wiring shall enter the unit cabinet at a single location.

L. Motors:
1. Compressor motors shall be of the refrigerant-cooled type with line-break thermal and current overload protection.
2. All fan motors shall have permanently lubricated bearings, and inherent, automatic reset, thermal overload protection.
3. Condenser fan motor shall be totally enclosed.

M. Grille:
1. Louvered Grille:
Louvered grille shall be factory-installed to provide hail guard and vandalism protection.

N. Duct Conversion:
Shall be available with the use of included duct covers.

O. Special Features Available:
1. Coil Options:
Shall include factory-installed optional tin-plated indoor, copper/copper and vinyl-coated refrigerant coils.
2. Economizer:
a. Economizer controls capable of providing free cooling using outside air.
b. Equipped with low leakage dampers not to exceed 3% leakage, at 1.0 in. wg pressure differential.
c. Spring return motor shuts off outdoor damper on power failure.
3. Flat Roof Curb:
Curbs shall have seal strip and a wood nailer for flashing and shall be installed per manufacturer's instructions.
4. Manual Outdoor Air Damper:
Package shall consist of damper, birdscreen, and rainhood which can be preset to admit outdoor air for yearround ventilation.
5. Thermostat:
To provide for one-stage heating and cooling in addition manual or automatic changeover and indoor fan control.
6. Natural-to-Propane Conversion Kit:
Shall be complete with all required hardware to convert to liquid propane (LP) operation.
7. Low Ambient Package:
Shall consist of a solid-state control and condenser coil temperature sensor for controlling condenser-fan motor operation, which shall allow unit to operate down to 0° F outdoor ambient temperature.
8. Filter Rack Kit:
Shall provide filter mounting for downflow applications.
9. Square-To-Round Duct Transitions 024-048:
Shall have the ability to convert the supply and return openings from rectangular to round.
10. Compressor Protection (Time Guard® II Kit)
Solid-state control shall protect compressor by preventing "short cycling."
11. Crankcase Heater:
Shall provide anti-floodback protection for low-load cooling applications.
12. High Altitude Kit:
Shall consist of natural gas orifices to compensate for gas heat operation at 2001 to 6000 ft above sea level.
13. Low $NO_x$ (Natural Gas only) option:
Shall provide $NO_x$ reduction to values below 40 nanograms/joule to meet California emission requirements.
14. Compressor Hard Start Kit:
Shall provide additional starting torque for single-phase compressors. (Single phase only).
15. Rigging kit includes rigging brackets which are inserted into the unit base rigging holds to rig unit for rooftop applications.

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Heating & Cooling Systems

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS

Cancels: NEW

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